TM14-17R TM20-17R

# **COLOR MONITOR**

# SERVICE MANUAL

(FOR FIELD ENGINEER)

lkegami



#### CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



**CAUTION:** 

TO REDUCE THE RISK OF ELEC-TRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALI-FIED SERVICE PERSONNEL.



The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the equipment.

WARNING: FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANU-FACTURER'S RECOMMENDED PARTS (REFER TO SERVICE LITERATURE).

AVIS:

POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL NE REMPLACER LES COM-POSANTS DONT LE FONCTIONNEMENT EST CRIITIQUE POUR LA SÉCURITÉ QUE PAR DES PIÉCES RECOMMANDÉES PARLEFABRICANT (CONSULTER LE GUIDE DÉ DÉPANNAGE).

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR WATER.

### IMPORTANT SAFETY INSTRUCTION

#### 1. General

- (1) Read all of these instructions.
- 2 Save these instructions for later use.
- 3 Follow all warnings and instructions marked on the television equipment.
- Wever push objects of any kind into this television monitor through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television monitor.
- ⑤ Do not attempt to service this television monitor yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- On not use attachments not recommended by the television equipment manufacturer as they may result in the risk of fire, electric shock, or injury to persons.
- This television monitor has been preadjusted to meet the respective broadcasting standard signals. So, it cannot be used with the signals of different broadcasting standards.
- When keeping or transporting the unit for a long time, pack it in the supplied carton or equivalent.
- This monitor is heavy.
  When taking out of or putting it into a carton box, or setting, do not move or carry it by a person.
  You may drop it on your foot, or hurt your waist.



#### 2. Power supply

- This television equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your television dealer or local power company.
- This television equipment is provided with a three-wire grounding type plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet.

Do not defeat the safety purpose of the groundingtype plug.

- When connecting and disconnecting the power cable, be sure to hold the plug.
- ② Do not allow anything to rest on the power cord. Do not locate this television equipment where the cord will be abused by persons walking on it.
- (5) For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet.

  This will prevent damage to the equipment due to lightning and power-line surges.
- ⑤ Do not overload wall outlets and extension cords as this can result in fire or electric shock.

#### 3. Usage and Location

- Do not use this television equipment near water

   for example, near a bath tub, wash-bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, or the like.
- ② Do not place this television equipment on an unstable cart, stand, or table. The television equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Use only with a cart or stand recommended by the manufacturer, or sold with the television equipment. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

Television equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.



Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the monitor and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the television equipment on a bed, sofa, rug, or other similar surface. (This television equipment should never be placed near or over a radiator or heat register.)

This television equipment monitor should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

- Avoid operating or placing (keeping) in hot (+40 °C or over) and cold (less than 0 °C), excessively vioratory, or dusty place. And avoid operating or placing (keeping) in the places exposed to the direct sunlight. Otherwise the cabinet may deform or the phosphor of the CRT surface may deteriorate.
- (5) If an image of extremely high brightness is displayed on the screen for a long time, the CRT may be cause burning.

#### 4. Cleaning

- ① Unplug this television equipment from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- ② Do not use thinner or benzine for cleaning. Otherwise, the cabinet may deform or the paint may peel away.

#### 5. Repair

- ① Unplug this television monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a. When the power cord or plug is damaged or frayed.
  - b. If liquid has been spilled into the television monitor.

- c. If the television monitor has been exposed to rain or water.
- d. If the television monitor does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television monitor to normal operation.
- e. If the television monitor has been dropped or the cabinet has been damaged.
- f. When the monitor exhibits a distinct change in performance this indicates a need for service.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.
- ③ Upon completion of any service or repairs to this monitor, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.
- ④ For repair service, contact **lkegami**'s authorized sales representative or **lkegami** service window directly.

#### SAFETY PRECAUTIONS

1. Comply with caution and safety related notes located on the shield case in the receiver.

#### 2. WARNING

Any alteration should not be made in the design or circuitry of this receiver.

Any design alterations or additions may alter the safety characteristic of this receiver and potentially create a hazardous situation for the user.

Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

#### 3. CRT

The picture tube in this receiver employs integral implosion protection. Replace with a tube of the same type number for continued safety.

#### 4. X-RADIATION AND HIGH VOLTAGE LIMITS

The primary source of potential X-radiation in solid state receivers is the picture tube.

The picture tube is specially constructed to prohibit X-radiation emissions. For continued X-radiation protection, the replacement tube must be the same type as the original.

The shields and mounting hardware for picture tubes have an X-radiation protection function and must be properly in place.

High voltage must be checked each time any service is required that involves B+, horizontal deflection or high voltage.

Where used, X-radiation protection circuits must be checked for proper operation each time the X-radiation protection circuit is serviced.

Refer to the warning label on the shield case in the receiver and the schematic in the manual and, where used, X-radiation protection circuits specifications.

High voltage is maintained within specified limits by the use of close tolerance safety related components /adjustments in the high voltage circuit. If high voltage exceeds specified limits, check each component specified on the schematic diagram and take necessary corrective action.

#### 5. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts is receiver sets have special safety-related characteristics. There characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual.

Electrical components having such features are identified by (\*) on the parts list and the schematic diagram in this manual.

The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in this manual may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time.

For the latest information always consult the current **lkegami** Service Data. A subscription to, on additional copies of, **lkegami** Service Data may be obtained at a nominal charge from **NY-lkegami**.

MODEL
TM14-17R
TM20-17R

### **COLOR MONITOR**

### **SERVICE MANUAL**

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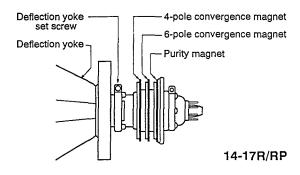


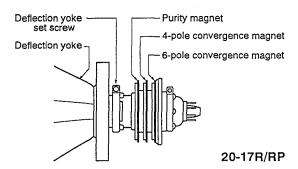
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#### 1. MAINTENANCE and ADJUSTMENT

When the specified performance can no longer be obtained with the adjusters on the front panel or when parts have been replaced due to a malfunction, perform adjustment of the following parts.

#### 1-1. MAIN CHASSIS





#### (1) Purity Adjustment

- ① Set the input signal to the full-white signal or similar signal which produces an even brightness over the entire screen.
- ② Press the DEGAUSS switch to demagnetize the magnetized shadow mask.
- 3 Turn "ON" only the G.SCREEN switch to set the rasters of the screen to a single green color.
- 4 Loosen the deflection yoke set screw, remove the silicon which holds the deflection yoke and CRT in place, and slide the deflection yoke all the way back.
- (5) Loosen the lock ring which holds the magnets in place.
- 6 Adjust the two purity magnets alternately so that there are green vertical lines at the center of the screen.

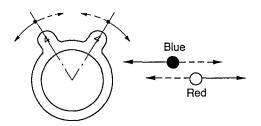
- While watching the screen, slide the deflection yoke forward so that the screen is an even green color. If the screen does not become an even green color, perform adjustment again from step
  (4).
- Set to blue and red, and confirm that the screen is a single color.
- Set to white rasters and if there is partial coloring of the rasters, slightly shift the position of the deflection yoke either forward or back.
- After completing adjustment, tighten the deflection yoke set screw and lock ring.

#### (2) Convergence Adjustment

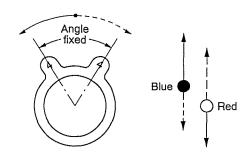
Before performing convergence adjustment, allow the monitor to warm up for at least 30 minutes. Input the cross hatch signal.

#### (a) Center convergence

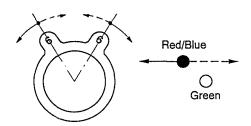
- 1 Loosen the lock ring.
- ② Turn "ON" only the R.SCREEN and B.SCREEN switches to set to blue and red screen.
- While paying attention to the cross section in the center of the screen, adjust the angles of the two 4-pole magnets as shown below to adjust the shifting of the vertical blue and red lines.



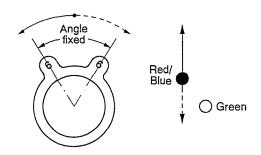
With the angle of the two 4-pole magnets remaining at that described in ③, rotate the two magnets simultaneously to adjust any shifting of horizontal lines.



- (5) Turn "OFF" all SCREEN switches to set to all-white screen.
- 6 Adjust the angle of the two 6-pole magnets and adjust any shifting of the red and blue vertical lines and green vertical lines.



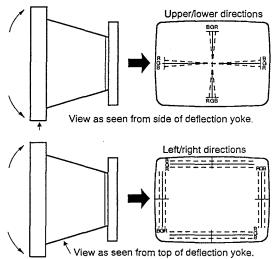
(7) With the angle of the two 6-pole magnets remaining at that described in (6), rotate the two magnets simultaneously to adjust any shifting of the red and blue horizontal lines and green horizontal lines.



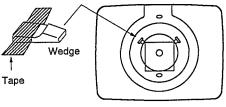
(8) Tighten the lock ring after completing adjustment of the center convergence.
If there is poor peripheral convergence, perform the adjustment described in following (b).

#### (b) Peripheral convergence

- ① Slightly loosen the deflection yoke set screw.
- ② Move the deflection yoke up, down, and to the left and right as shown below to adjust any peripheral shifting.



3 After the completion of adjustment, insert wedges into the space between the deflection yoke and CRT as shown in the diagram below to fully lock the deflection yoke in place.



View as seen from back of CRT

#### (3) Replacement of CRT

As the CRT for this monitor is supplied with the deflection yoke already attached, there is no need to readjust the purity and convergence. . Replacement of the CRT is performed in the following manner.

- ① Remove the four screws which hold the top cover, and remove the cover.
- 2 Remove the four screws each which hold the right and left covers, and remove the covers.
- (3) Remove the anode cap of the CRT. Be carefull not to get an electric shock when removing the anode cap since the electric charge of high voltage is charged inside of the CRT. (Be extremely careful when removing the sucker of anode cap from the CRT.) And remove the CRT SOCKET BOARD from the CRT.
- ④ Remove the TB1 (CRT GND) on the CRT SOCKET BOARD.

#### ⑤ <TM14~17R/RP>

- i) Disconnect the connector, which connects the FRONT RIGHT PANEL with the VIDEO BOARD, at the FRONT RIGHT PANEL side. Then, remove the FRONT RIGHT PANEL from an escutcheon by removing the FRONT RIGHT PANEL fixing screws(M3 × 10).
- ii) Disconnect the connector, which connects the FRONT LEFT PANEL with the DEF & POWER BOARD, at the FRONT LEFT PANEL side.

Then, remove the FRONT LEFT PANEL from an escutcheon by removing the FRONT LEFT PANEL fixing screws( $M3 \times 10$ ).

#### <TM20-17R/RP>

 Disconnect the connector, which connects the FRONT PANEL with the VIDEO BOARD, at the FRONT PANEL side.

- Then, remove the FRONT PANEL from an escutcheon by removing the FRONT PANEL fixing screws( $M3 \times 10$ ).
- ii) Disconnect the connector connecting the LED BOARD on the upper side of the escutcheon with the DEF & POWER BOARD.
- 6 Disconnect the connector connecting the deflection york with the DEF & POWER BOARD.
- Disconnect the connector connecting the DEGAUSS coil with the DEF & POWER BOARD.
- Remove the eight screws (four screws on the top and each two screws on the right and left) which hold the main unit and escutcheon, and remove the escutcheon from the main unit together with the CRT.
  Make sure that the neck of CRT does not touch the main unit at this time.
- Place the CRT on a stable surface with the escutcheon down. Place a cloth below the escutcheon to prevent it from being damaged. And remove the four screws which attach the escutcheon to the CRT.

   At this time, pay attention not to break screw threads because the screw lock is painted on screws.
- 10 Remove the degauss coil.
- Prepare the new CRT and reassemble the unit by following steps ① through ⑧ above in reverse order.

#### (4) Adjustment after CRT Replacement

- ① Tentative setting of SCR VR
  - Make sure that each connector is correctly connected, paying special attention to the connectors of anode cap, FOCUS and SCR.
  - ii) Set the SCR VR, which is close to the components side of the PC board, of the flyback transformer on the DEF & POWER BOARD to its MIN. position.
  - iii) Connect the AC cable as well as the signal cable and then turn the power on. At this time, make sure that no troubles are found.
- iv) Rotate slowly the SCR VR clockwise to let pictures appear on the screen and set the SCR VR to the point where the luminance of the pictures does not vary even when the SCR VR is rotated.

- ② Setting of WIDTH, HEIGHT, etc. (Refer to Table 1 of Scanning Size)
  - Perform the adjustments of scanning size, linearity, pincushion distortion, raster position and picture position in normal scanning, using the following VRs.
    - \* VR202(NOR WIDTH) VR204 (PIN LEVEL) VR206(SIDE PIN PHASE) VR207(H CENT) VR209(V CENT)

on the DEF & POWER BOARD

\* VR905(NOR HEI) VR904(V LIN) VR908(H PHASE)

on the VIDEO BOARD

ii) After the above adjustment is completed, connect the probe to R248(collector side of Tr215) on the DEF & POWER BOARD and adjust VR903(V BIAS) so that the voltage of waveform end of vertical deflection output can be DC+5V.



iii) Perform the adjustments of scanning sizes in under scanning and in 16:9 aspect ratio scanning, using VR203 (US WIDTH) on the DEF & POWER BOARD, VR906 (US HEIGHT) and VR907(16:9 HEIGHT) on the VIDEO BOARD.

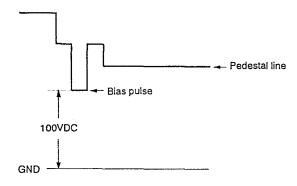
Table 1 SCANNING SIZE

	14"(mm)		20"(mm)	
1	Height	Width	Height	Width
Normal Scan	The outer frame of picture contacts the escutcheon.	<b>←</b>	<b>←</b>	<b>←</b>
Under Scan	194	259	278	370
16:9 Scan	146	259	208	370

- 3 SCREEN VR(Reference Channel Decision)
  - Connect the probe of an oscilloscope to TP1 (RK) on the CRT SOCKET BOARD and monitor the waveforms from the end of V.BLK to start of pictures at a V rate.
  - ii) Next, adjust the SCREEN VR until the top of bias pulse reaches 100V DC.
- iii) Not changing the range of the oscilloscope, measure the voltages of bias pulse at TP2(GK) and TP3(BK) on the CRT SOCKET BOARD. Then, readjust the channel of the intermediate voltage among the three channels to 100Vdc with the SCREEN VR in order to decide the reference channel.

#### Setting of BIAS PULSE LEVEL

 Waveform of TP1 (V rate magnifying waveform)

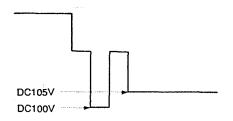


iv) Set the BACKGROUND VR of the reference channel decided in the step iii) to its MAX position.

Next, preset the BRIGHTNESS and adjust the pedestal potential of the reference channel to 105V DC with the PRESET BRIGHTNESS VR.

#### Setting of PRESET BRIGHTNESS

Waveform of TP1



v) Adjust the BACKGROUND VR set to MAX. in the above step so that the raster of the reference channel can be just before cut off on the screen. In addition, adjust in the same way as the reference channel in the other channels using the respective BACKGROUND VRs.

- vi) Input the signal of detailed figures and optimize the FOCUS VR.
- 4-1 White Balance Adjustment(with Color Analyzer) When replacing a CRT, adjust the white balance in the following manner.
  - i) Demagnetize the entire monitor with a demagnetizing coil(external).
  - ii) Input the WINDOW signal as the COMPOSITE signal, apply the sensor of color analyzer to the center of a CRT and cover the CRT with a blackout curtain or something.
  - iii) Adjust the BLACKGROUND and GAIN VRs on the FRONT PANEL so that the LOW LIGHT (5cd/ m²) and HIGH LIGHT (120cd/ m²) in the indication of the color analyzer can be equal. (The R channel is a reference.)

    For the value of x and y, refer to the following.
  - iv) Make sure that the value is almost equal in Y/C or AUX.

	х	У
6500°K	.313	.329
9300°K	.283	.297

- 4-2 White Balance Adjustment(with human eyes)
  - i) Input the COLOR BAR signal and turn the MONO switch on.

(Black-and-white step waveforms of a gray scale chart, etc. might also be available.)

- ii) Paying attention to the dark area of the COLOR BAR signal, adjust the R, G and B BACK-GROUND VRs on the FRONT PANEL so that the color of the area can be white.
- iii) Next, pay attention to the bright area of the COLOR BAR signal and adjust the G GAIN and B GAIN VRs on the FRONT PANEL so that the color of the area can be white.
- iv) Adjust the G and B GAIN VRs for the bright area as well as the G and B BACKGROUND VRs for the dark area so that all the area from bright one to dark one can be same color.

## 1-2 ADJUSTMENT PROCEDURE for VIDEO BOARD

The INPUT signal is to be the COLOR BAR (VIDEO A) input unless otherwise specified.

#### (1) Items Checked

- Set all the VRs on the VIDEO BOARD to the center position and attach the VIDEO BOARD to the main body of the monitor.
- ii) Connect the specified cables to the connectors on the PC board respectively.

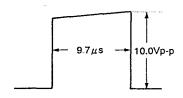
#### (2) Operation

- i) Connect the AC cable after connecting the signal cable and turn the POWER switch on.
- ii) After turning the POWER switch on, make sure that no trouble are found.

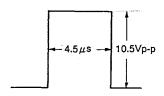
Then, set the SCAN switch to "NOR" position and obtain a synchronization by VR901 (H HOLD) and VR902(N V HOLD) for NTSC/VR401(P V HOLD) for PAL and next, adjust the HEIGHT and WIDTH using VR905(NOR HEI) on the VIDEO BOARD and VR202(NOR WIDTH) on the DEF & POWER BOARD in order to let the proper pictures appear on the screen.

#### (3) Waveform Check(Pulse System)

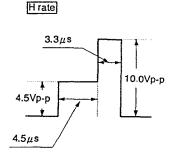
- i) Check the waveforms at the following TPs.
  - TP702(HD)



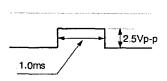
• TP703(BP.CLP.P)



• TP705(CHROMA..S.C.P)

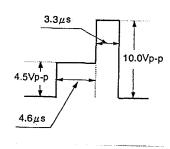


V rate

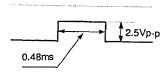


TP706(VIDEO.S.C.P)

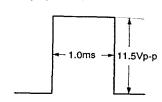




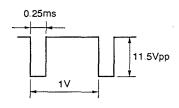
V rate



TP707(VD)



TP708 (BKG VD)



#### (4) Adjustments of Deflection System

The NTSC signal to VIDEO A input terminal or the PAL signal to VIDEO B input terminal should be inputted before the adjustments.

#### ① VR901 (H HOLD)

- i) Select VIDEO A and connect the electrolytic capacitor which is equivalent to  $47 \,\mu$  F/25V between TP901 and TP903(GND) to get a horizontal free-running state.
- ii) Adjust VR901(H HOLD) so that the pictures can roll, slanting to the right.

#### ② VR902 (N. V HOLD)

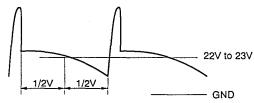
- i) Select VIDEO A and connect the electrolytic capacitor which is equivalent to  $47\,\mu\,F/25V$  between TP902 and TP903(GND) to get a vertical free-running state.
- ii) Adjust VR902(N. V HOLD) so that the pictures can roll upward a little faster.

#### ③ VR401 (P. V HOLD)

- i) Select VIDEO B and connect the electrolytic capacitor which is equivalent to  $47 \mu F/25V$  between TP902 and TP903(GND) to get a vertical free-running state.
- ii) Adjust VR401(P. V HOLD) so that the pictures can roll upward a little faster.

#### 4 VR903 (V BIAS)

- i) Select VIDEO A and set the SCAN switch to "NOR" position.
- ii) Connect the probe to R248 (collector side of Tr215) on the DEF & POWER BOARD and adjust the voltage at the medium point of 1V to 22V to 23V, half of the supply voltage.

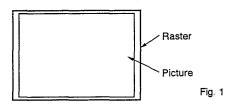


- iii) At this time, adjust generally HEIGHT(VR905), LINEARITY(VR904), WIDTH (VR202 on the DEF & POWER BOARD) and V CENT (VR209 on the DEF & POWER BOARD), refering to Scanning Size(Table 2).
- iv) Next, readjust VR903 so that the voltage at the end of the V deflection can be +5V dc.



#### (5) VR908 (H. PHASE)

i) Input the COLOR BAR and set the SCAN switch on the FRONT PANEL to UNDER SCAN position. Then, adjust VR908 so that the picture can be positioned at the center of the raster. (See Fig. 1)



- ii) Input the CROSS HATCH signal and check the side pin. When the side pin is wrong, optimize it with VR204(PIN LEVEL) and VR206(SIDE PIN PHASE) on the DEF & POWER BOARD.
- (6) VR905(NOR HEI.)
  VR904(V. LIN.)

  VR209 (V CENT)
  VR207(H CENT)
  VR202 (NOR WIDTH)

  On the VIDEO BOARD

  on the DEF &
  POWER BOARD

Adjust the scanning size and V linearity in normal scanning using the above VRs. (For the scanning size, refer to Table 2.)

Using the above VRs, adjust the scanning sizes of the pictures in under scanning as well as in 16:9 aspect ratio scanning as shown in the following table.

Table 2 SCANNING SIZE

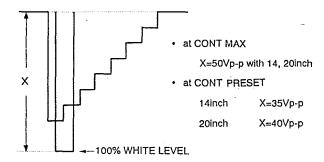
	14"(mm)		) 20"(mm)	
	Height	Width	Height	Width
Normal Scan	The outer frame of picture contacts the escutcheon.	<b>←</b>	<b>←</b>	<b>←</b>
Under Scan	194	259	278	370
16:9 Scan	146	259	208	370

#### (5) Adjustments of VIDEO System-Level Adjustment of LUMINANCE Signal

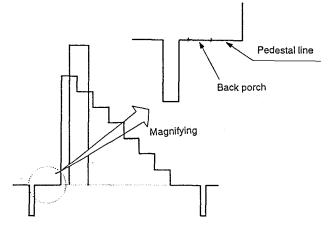
#### ① VR601 (R GAIN)

 i) Select AUX and set S1(RGB/YPBPR selector switch) on the VIDEO BOARD to "RGB" position.

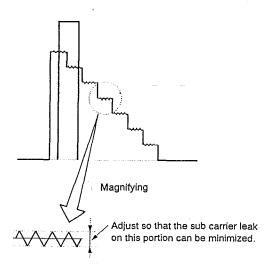
- ii) Input the COLOR BAR (BURST, CHROMA: OFF) or the WINDOW signal (BURST, CHROMA: OFF) to the R/PR input.
- iii) Input the external SYNC signal and select EXT. SYNC.
- iv) Connect the probe to TP1(RK) inside the CRT SOCKET BOARD and adjust VR601(R GAIN) so that the white area of 100% can be 50Vp-p when setting CONTRAST VR to "MAX" position.
  - TP1(RK)



- v) Preset CONTRAST and adjust the white area of 100% to 35Vp-p(40Vp-p) with the CONTRAST PRESET VR in this stage. (In the last stage, it is to be adjusted to 120cd/ m² with a luminance meter.)
- ② VR104 (Y CLP. LEVEL) VR103 (Y. LEVEL)
  - i) Input the COLOR BAR(BURST, CHROMA:
     OFF) signal to the G/Y input and set S1(RGB
     → YPBPR selector switch) on the VIDEO
     BOARD to "YPBPR" position.
  - ii) Preset CONTRAST as well as BRIGHTNESS and connect the probe to TP102(GND: TP104), then adjust VR104(Y CLP. LEVEL) until the level at back porch part of waveform matches the pedestal line. (Range of an oscilloscope: 50mv/div,  $10\mu$  sec/div)
    - TP102(Y waveform) Adjustment of CLAMP LEVEL



- iii) Connet the probe to TP1(RK) on the CRT SOCKET BOARD and adjust VR103 (Y. LEVEL) until the white area of 100% reaches 35Vp-p. (BRIGHTNESS, CONTRAST: PRESET)
- ③ L201 (N. TRAP) L301(P. TRAP)
  - Input the NTSC SMPTE COLOR BAR signal to VIDEO A input terminal and input the PAL EBU COLOR BAR signal to VIDEO B input terminal.
- ii) Connect the probe to TP102 at a V rate, select VIDEO A, and set the COMB/TRAP switch on the FRONT PANEL to "TRAP" position. Then, magnifying the non-correlative portion between the scanning lines, that is, portion where color changes in the vertical direction, adjust L201(N TRAP) so that the carrier leak on the portion can be minimized.
- iii) Select VIDEO B and adjust L301(P TRAP) until the carrier leak is minimized.
  - TP102(Y waveform) SUB CARRIER Leak



- WR202 (COMB Y LEVEL)
  VR301 (PAL Y LEVEL)
  - i) Input the NTSC COLOR BAR to VIDEO A and input the PAL COLOR BAR to VIDEO B. Then, connect the probe to TP1(RK) on the CRT SOCKET BOARD.

After selecting VIDEO A, adjust VR202 (COMB Y LEVEL) so that the white area of 100% can be 35Vp-p.

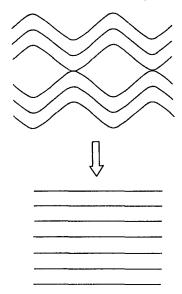
In the case of selecting VIDEO B, adjust VR301(PAL Y LEVEL) in a similar way.

(5) VR 201 (Y/C Y LEVEL)
Input NTSC COLOR BAR signal to Y/C input and connect the probe to TP1(RK) on the CRT SOCKET BOARD. After selecting Y/C, adjust VR201(Y/C Y LEVEL) so that the white area of 100% can be 35Vp-p.

## (6) Adjustments of VIDEO System— Level Adjustment of CHROMINANCE Signal

- ① VC201 (N COLOR HOLD) VC301 (P COLOR HOLD)
  - Input the NTSC COLOR BAR signal to VIDEO A and input the PAL COLOR BAR signal to VIDEO B. Then, Connect the probe to TP101 at a V rate.
- ii) Select VIDEO A and set S501 (AUTO/FORCED) to "FORCED" position.
- iii) At this time, adjust VC201(N COLOR HOLD) so that the wavy line of waveform on the oscilloscope can be a straight line.
- iv) Next, select VIDEO B and adjust VC301(P COLOR HOLD) so that the waveform can be a straight line in the same way as NTSC in step iii).
- v) Lastly, set S501 to "AUTO" position again.

TP101(R-Y) Setting of COLOR HOLD

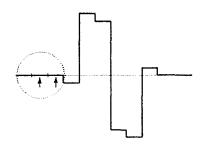


#### ② VR102 (R-Y CLP LEVEL) VR106 (B-Y CLP LEVEL)

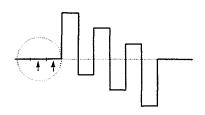
- i) Select NTSC COLOR BAR of VIDEO A.
- ii) Connect the probe to TP101 and adjust VR102(R-Y CLP LEVEL) so that the level at back porch part of waveform can match the pedestal line.
- iii) Next, connect the probe to TP103 and perform the adjustment using VR106(B-Y CLP LEVEL) in the same way as the above.

(Connect the GND terminal of the oscilloscope to TP104 and its range is to be 100 mV/div,  $10 \ \mu \ \text{sec/div.}$ )

• TP101(R-Y waveform)



· TP103(B-Y waveform)

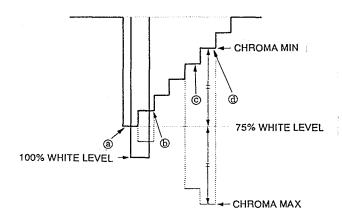


#### ③ VR502 (D. R-Y LEVEL)

i) Select the NTSC COLOR BAR of VIDEO A and connect the probe to TP1(RK)on the CRT SOCKET BOARD. Then, adjust HUE and CHROMA VRs on the FRONT PANEL so that the waveform of the R OUTPUT can be the normal R signal.

For adjusting methods of HUE and CHROMA, refer to the topic, "Adjustment of Color Balance" in the operation manual.

- ii) When setting the CHROMA VR to MIN position, adjust the spacing between ⓐ of 75% white and ⓓ to 2cm on the oscilloscope with its UNCAL knob.
- iii) Next, adjust VR502(D R-Y LEVEL) so that @ can be 2cm to the plus(+) side toward @ when setting the CHROMA VR to MAX position.
  - TP1(RK waveform) Setting of CHROMA LEVEL



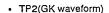
iv) Here, preset the CHROMA VR, and adjust the CHROMA PRESET VR as well as the HUE PRESET VR on the FRONT PANEL to obtain the normal R waveform.

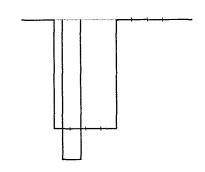
#### 4 VR503 (D. B-Y LEVEL)

i) Connect the probe to TP3(BK) on the CRT SOCKET BOARD and adjust VR503(D. B-Y LEVEL) so that the waveform of B OUTPUT can be the normal B signal. (If the HUE is wrong, adjust it with this B OUTPUT.)

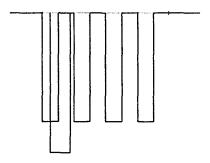
#### (5) Waveform Check

- Check to see that the waveforms at TP1(RK), TP2(GK) and TP3(BK) on the CRT SOCKET BOARD are respectively the normal R, G and B signals.
- ii) In addition, make sure that the clamp voltage of pedestal is stable at each channel when turning the CONTRAST VR MIN to MAX.





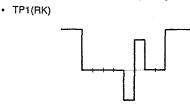
• TP3(BK waveform)



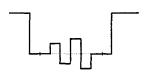
#### ⑥ L306, VR303 (DL MATCH)

i) Select the PAL COLOR BAR of VIDEO B and preset the CHROMA and the HUE. Then, connect the probe to TP3(BK) on the CRT SOCKET BOARD and adjust the chroma level and line crawling with VR303 and L306 (DL MATCH). ii) Here, input the ANTI PAL signal and make sure that the waveforms at TP1, TP2 and TP3 are the waveforms shown below.

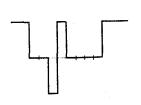
At ANTI PAL inputting



TP2(GK)



TP3(BK)



#### Waveform Check in inputting Y/C signal

i) Select Y/C after inputting the NTSC COLOR BAR to the Y/C input. Next, make sure that level of each cathode on the CRT SOCKET BOARD is the same when inputting the COMPOSITE signal.

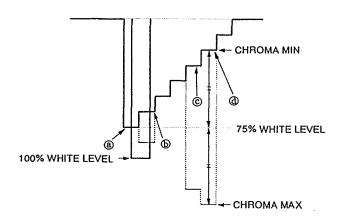
#### (7) Adjustments of VIDEO System-Level Adjustment of YPBPR Input

#### ① VR101 (R-Y LEVEL)

- i) After Inputting N10 or YPBPR signal which meets the SMPTE standard to R/R-Y, G/Y and B/B-Y inputs, select AUX.

  Next set \$1(RGR \to YPBPR) to "YPBPR"
  - Next, set S1(RGB  $\longleftrightarrow$  YPBPR) to "YPBPR" position and connect the probe to TP1(RK) on the CRT SOCKET BOARD.
- ii) When setting the CHROMA VR to MIN position, adjust the spacing between ⓐ of 75% white and ⓓ to 2cm on the oscilloscope with its UNCAL knob.
- iii) Next, adjust VR101(R-Y LEVEL) so that ( can be 2cm to the plus(+) side toward ( when setting the CHROMA VR to MAX position.

• TP1(RK waveform) Setting of CHROMA LEVEL



#### ② YPBPR CHROMA (on the FRONT PANEL)

i) Return the CHROMA VR to PRESET and adjust YPBPR CHROMA on the FRONT PANEL so that the waveform at TP1(RK) can be the normal R waveform.

#### ③ VR105 (B-Y LEVEL)

- i) Connect the probe to TP3(BK) on the CRT SOCKET BOARD and adjust VR105 (B-Y LEVEL) to obtain the normal B waveform.
- ii)Connect the probe to TP2(GK) on the CRT SOCKET BOARD and make sure that the normal G waveform is obtained.

## (8) Adjustments of VIDEO System – Frequency Characteristic Check

#### (1) VC501

i) Input the NTSC(PAL) SWEEP signal(without BURST) to VIDEO A input and connect the probe to TP1 on the CRT SOCKET BOARD. Next, preset CONTRAST as well as BRIGHT-NESS and adjust VC501 as follows.

- ii) Connect the probe to TP2(GK) and TP3(BK), and make sure that each waveform at them is within specified value.
- iii) Input the PAL(NTSC) SWEEP signal(without BURST) and the waveforms at TP1(RK), TP2 (GK) and TP3(BK) are within the specified value.
- iv) Input the SWEEP signal to Y/C input and make sure respectively.
- v) Input the SWEEP signal as the YPBPR input and set the COLOR / MONO switch to "MONO" position in order to make sure respectively.

vi) Input the SWEEP signal as the RGB input and make sure respectively.

#### ② VR501 (PHASE EQ.)

- i) Input the DOT BAR signal to the VIDEO A input and turn on the APERTURE switch.
- ii) Connect the probe to TP503 on the VIDEO BOARD and adjust VR501(PHASE EQ.) so that the edge balance can be symmetrical.



## 1-3 ADJUSTMENT PROCEDURE for DEF & POWER BOARD

The INPUT signal is to be the COLOR BAR unless otherwise specified.

#### (1) Items Checked

- i) Attach the DEF & POWER BOARD to the main body of the monitor. At this time, make sure that the POWER switch of the monitor is turned off.
- ii) Connect the specified cables to the connectors on the PC board respectively. Especially connect the connectors of high voltage system securely. (See below)

CRT anode cap
FOCUS connector
SCR connector
Deflection york connector

iii) Connector for switching the power supply input Switching the power, 100V / 200V system of the DEF & POWER BOARD is performed by inserting the short connector into CN105 and CN106.

Insert the connectors according to the supply voltage, refering to the following table.

Table 3

Supply Voltage	CN105	CN106
100V system (100~120V)	Insert short connector	Open
200V system (200~240V)	Open	Insert short connector

#### (2) Operation

- i) Set VR201 as well as SCR VR(which is close to the components side of the PC board) of the flyback transformer to MIN position and also set other VRs all to each center position.
- ii) After connecting the signal cable, connect the AC cable and then turn the POWER switch on.
- iii) Make sure that no troubles are found after turning the power on. Then, rotate slowly the SCR VR clockwise to let pictures shine on the screen and set the SCR VR to the point where the luminance of the pictures does not vary even when the SCR VR is rotated.
- iv) Inputting the signal of detailed figures, adjust the FOCUS VR on the flyback transformer (above the SCR VR) so that the pictures can be clear. Next, adjust VR202 (NOR WIDTH), VR204 (PIN LEVEL), VR206 (SIDE PIN PHASE), VR207(H CENT) and VR209 (V CENT) briefly. (Refer to Table 4 of Scanning Size.)

Table 4 SCANNING SIZE

	14"(mr	20"(	mm)	
	Helght	Width	Helght	Width
Normal Scan	The outer frame of picture contacts the escutcheon.	<b>~</b>	<b>\</b>	<b>←</b>
Under Scan	194	259	278	370
16:9 Scan	146	259	208	370

## (3) Adjustment for Preventation of X-rays Radiation

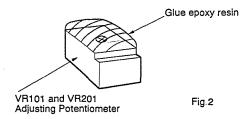
- ① VR201 (PROTECT)
  - i) After checking that the POWER switch is turned off, connect the high voltage meter to the anode of CRT and also connect GND of the high voltage meter to that of CRT.
  - ii) After turning on the POWER switch, adjust the high voltage output to 28kV with VR101(+B ADJ.).
- iii) Rotating slowly VR201, set the VR to the point where protection of the high voltage operates.
- iv) Turn the POWER switch off once after the protection operates, adjust VR101 so that the high voltage output can be a little reduced. Then, turn the POWER switch on again.
- v) Raise the high voltage output again with VR101 and check that the protection operates at 28kV.
- vi) When the voltage for actuating the protection is not 28kV, repeat the procedure of step iii) to vi).
- ② VR101 (+B ADJ.)
  - i) Connect the "+" lead of a digital voltmeter to TP102 and the " - " lead to TP104 or the chassis.
  - ii) Adjust VR101 so that the voltmeter can show a reading of +110V.
- iii) Check the following voltage at each TP.

TP101 
$$\rightarrow$$
+150V  $\pm$  2V  
TP103  $\rightarrow$ + 45V  $\pm$  2V  
TP105  $\rightarrow$ + 16V  $\pm$  2V

3 After having completed the above adjustments, seal the whole adjusting side of VR101 and VR201 using Cemedine No. 1500 (Araldite) as shown in Fig.2.

These controls are not for field servicing and are fixed with glue after setting to avoid X-ray radiation which may cause one component failure in the circuit and misadjustment of these

controls. The sealing method is shown in the figure.



#### (4) Adjustments of High Voltage Regulator

- ① VR208 (HV. ADJ.)
  - i) Set the scanning size to NORMAL and make CRT cut off.
  - ii) Connect the probe of an oscilloscope to TP203 and adjust VR208 (HV ADJ.) so that the whole waveforms can be in the range of GND to 5V at the DC range.
    - TP203(H.V.REG)



Adjust carefully not to damage the waveforms.

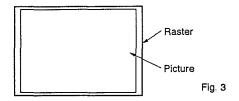
- iii) After turning the power off once, connect the high voltage meter to the anode of CRT and also connect GND of the high voltage meter to that of CRT. Then, turn the power on again.
- iv) Preset CONTRAST as well as BRIGHTNESS and make sure that the high voltage output is  $24kV \pm 1kV$ .
- v) Make sure that WIDTH does not vary when rotating quickly the CONTRAST and BRIGHT-NESS VRs MIN to MAX.

If WIDTH varies considerably at this time, adjust VR208 so that the change of WIDTH can be smallest. However, the high voltage output is to be  $24kV \pm 1kV$ .

#### (5) Adjustments of Scanning Size, etc.

- ① VR202(NOR WIDTH)
  VR207(H CENT)
  VR204(PIN LEVEL)
  VR206(SIDE PIN PHASE)
  - Input the COLOR BAR signal and press the SCAN switch on the FRONT PANEL to obtain under scanning. At this time, make sure that

the picture is at the center of the raster. If not so, adjust VR908(H PHASE) on the VIDEO BOARD so that the picture can be at the center of the raster. (See Fig. 3)



ii) Input the CROSS HATCH signal and adjust VR204(PIN LEVEL) as well as VR206(SIDE PIN PHASE) so that the PIN distortion can be optimized in both normal scanning and under scanning.

Next, input the COLOR BAR signal and adjust WIDTH in normal scanning (see Table 5) with VR202 (NOR WIDTH) as well as VR207(H CENT). (Refer to Normal scanning size in Table 5.)

#### ② VR203 (US WIDTH)

 i) Input the COLOR BAR signal and adjust VR203(US WIDTH) so that WIDTH of picture can be 259mm for 14" or 370mm for 20" in under scanning. (Refer to Table 5 of scanning size)

#### ③ VR209 (V CENT)

i) Input the COLOR BAR signal and adjust VR209 so that the center of raster in vertical direction can be that of CRT in vertical direction at normal scanning. At this time, if the scanning size (HEIGHT) is wrong, adjust VR905 (NOR HEI.) on the VIDEO BOARD so that the outer frame of picture can contact the escutcheon. (See Table 5)

In addition, it is necessary to adjust VR906(U. HEI) and VR907(16:9 HEI) on the VIDEO BOARD when VR905(NOR HEI.) is adjusted. The scanning sizes of picture is as follows.

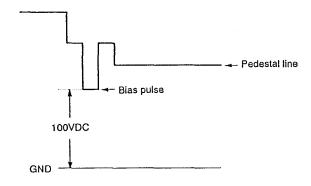
Table 5 SCANNING SIZE

	14"(mr	20"(mm)		
	Helght	Width	Height	Width
Normal Scan	The outer frame of picture contacts the escutcheon.	<b>←</b>	<b>←</b>	<b>←</b>
Under Scan	194	259	278	370
16:9 Scan	146	259	208	370

## (6) Adjustments of SCREEN VR(Reference Channel Decision) and FOCUS VR

- Connect the probe of an oscilloscope to TP1(RK) on the CRT SOCKET BOARD and monitor the waveforms from the end of V.BLK to start of pictures at a V rate.
- ii) Next, adjust the SCREEN VR until the top of bias pulse reaches 100V DC.
- iii) Not changing the range of the oscilloscope, measure the voltages of bias pulse at TP2(GK) and TP3(BK) on the CRT SOCKET BOARD. Then, readjust the channel of the intermediate voltage among the three channels to 100V DC with the SCREEN VR in order to decide the reference channel.

Setting of BIAS PULSE LEVEL
• Waveform of TP1
(V rate magnifying waveform)

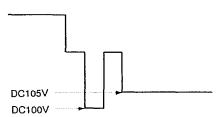


iv) Set the BACKGROUND VR of the reference channel decided in the step iii) to its MAX position.

Next, preset the BRIGHTNESS and adjust the pedestal potential of the reference channel to 105V DC with the PRESET BRIGHTNESS VR.

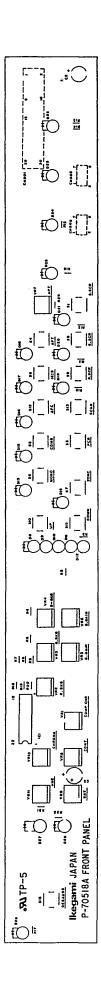
Setting of PRESET BRIGHTNESS

Waveform of TP1

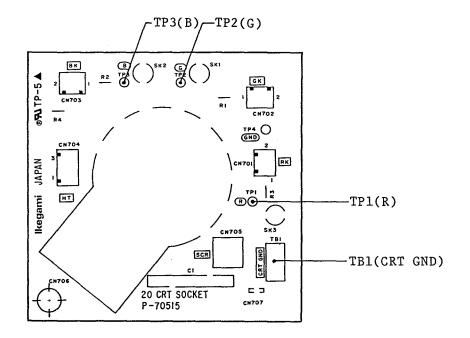


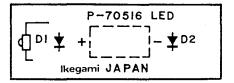
- v) Adjust the BACKGROUND VR set to MAX. in the above step so that the raster of the reference channel can be just before cut off on the screen. In addition, adjust the other channels in the same way as the reference using the respective BACKGROUND VRs.
- vi) Input the signal of detailed figures and optimize the FOCUS VR.

### 2. PARTS LOCATION



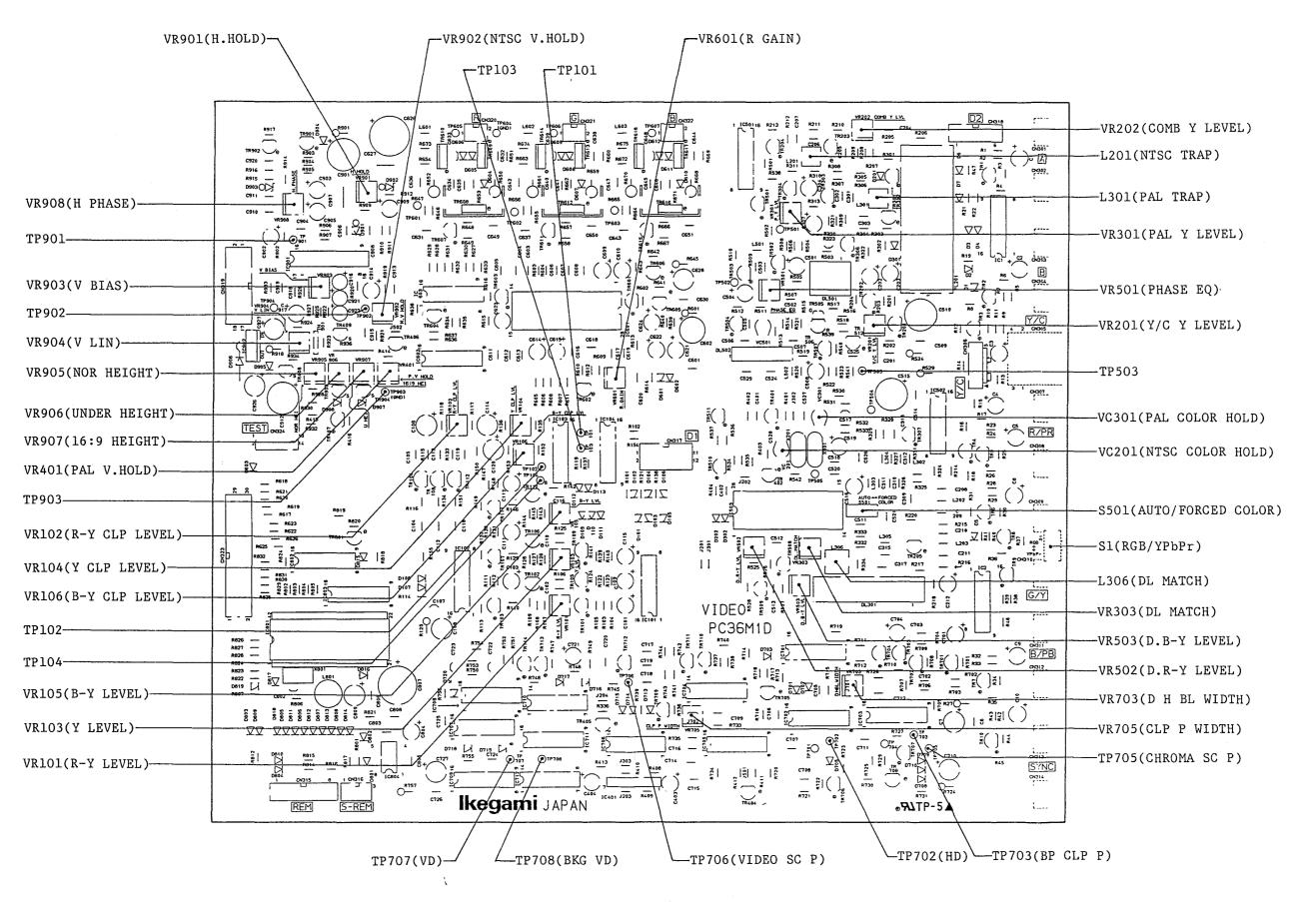
17 SERIES
20" FRONT PANEL
Parts Location
P-70518A



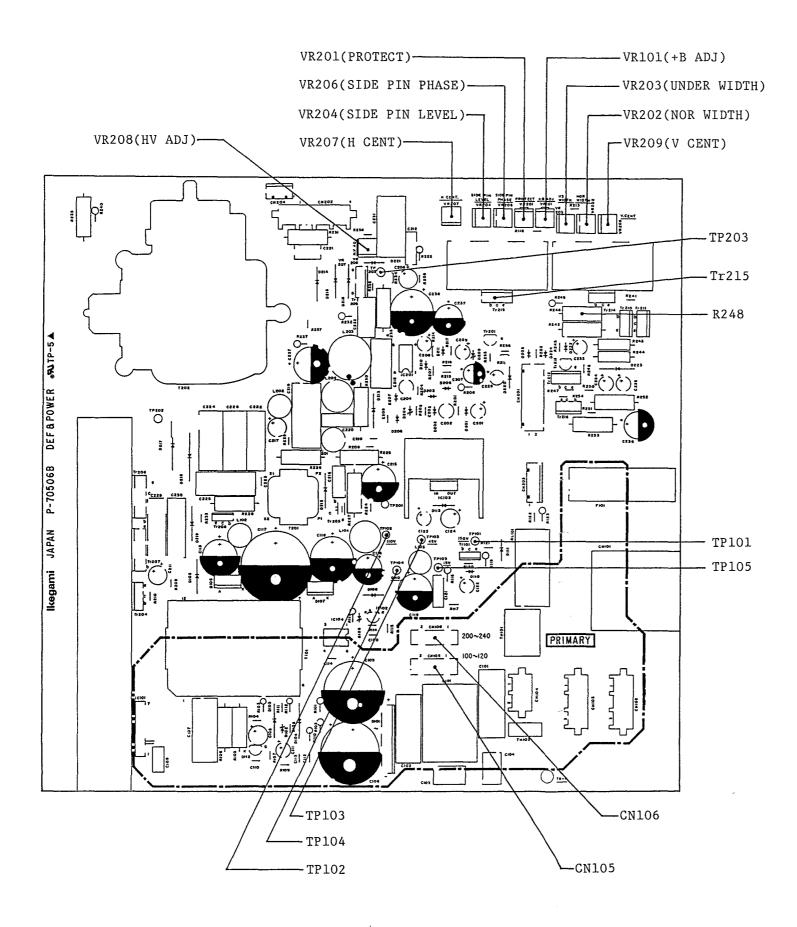


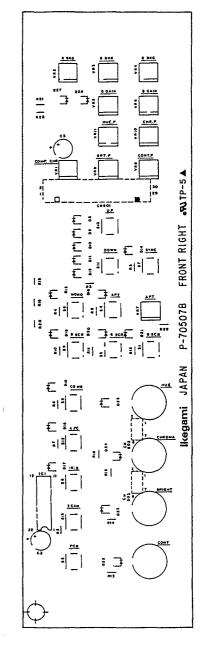
17 SERIES 20″ LED BOARD Parts Location P-70516

### 3. SCHEMATIC DIAGRAM



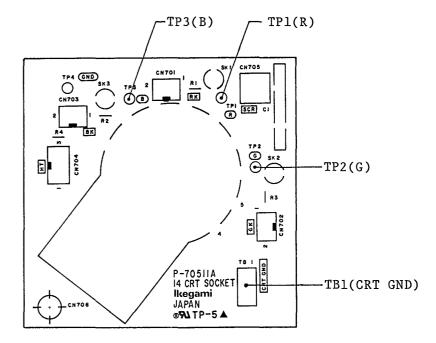
17 SERIES
VIDEO BOARD
Parts Location
PC36M1D



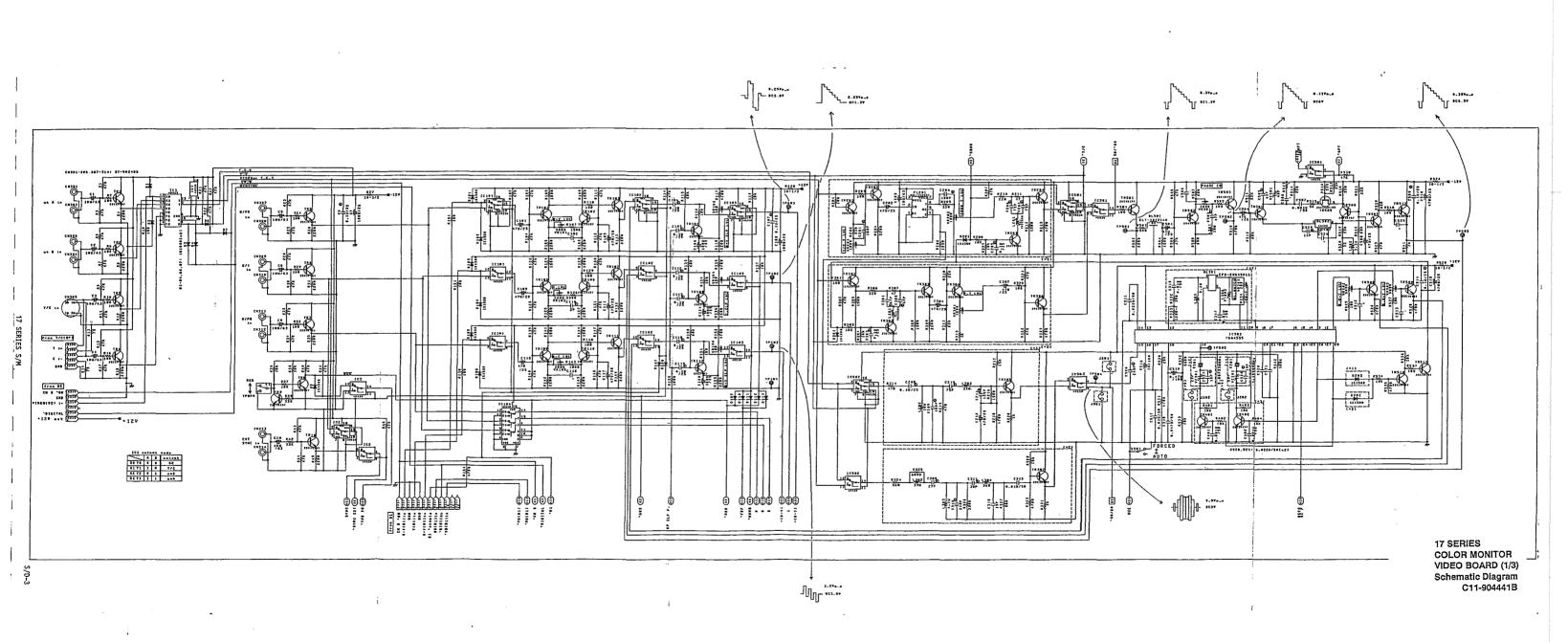


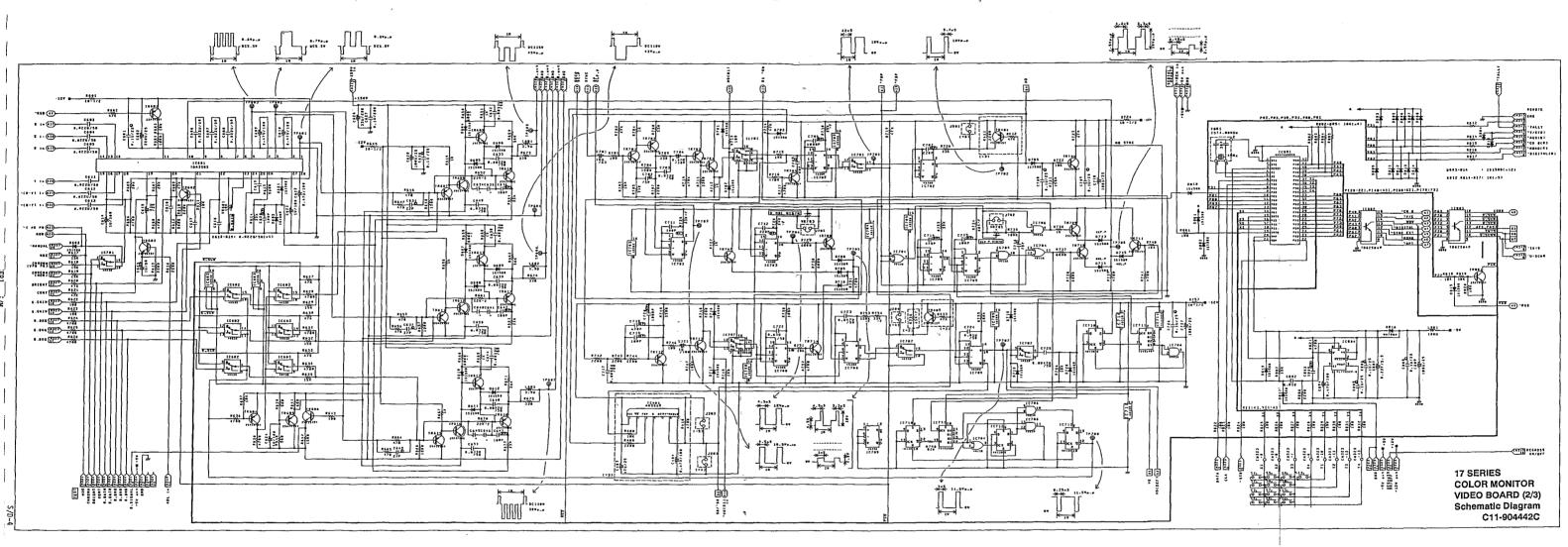
17 SERIES
DEF & POWER BOARD
Parts Location
P-70506B

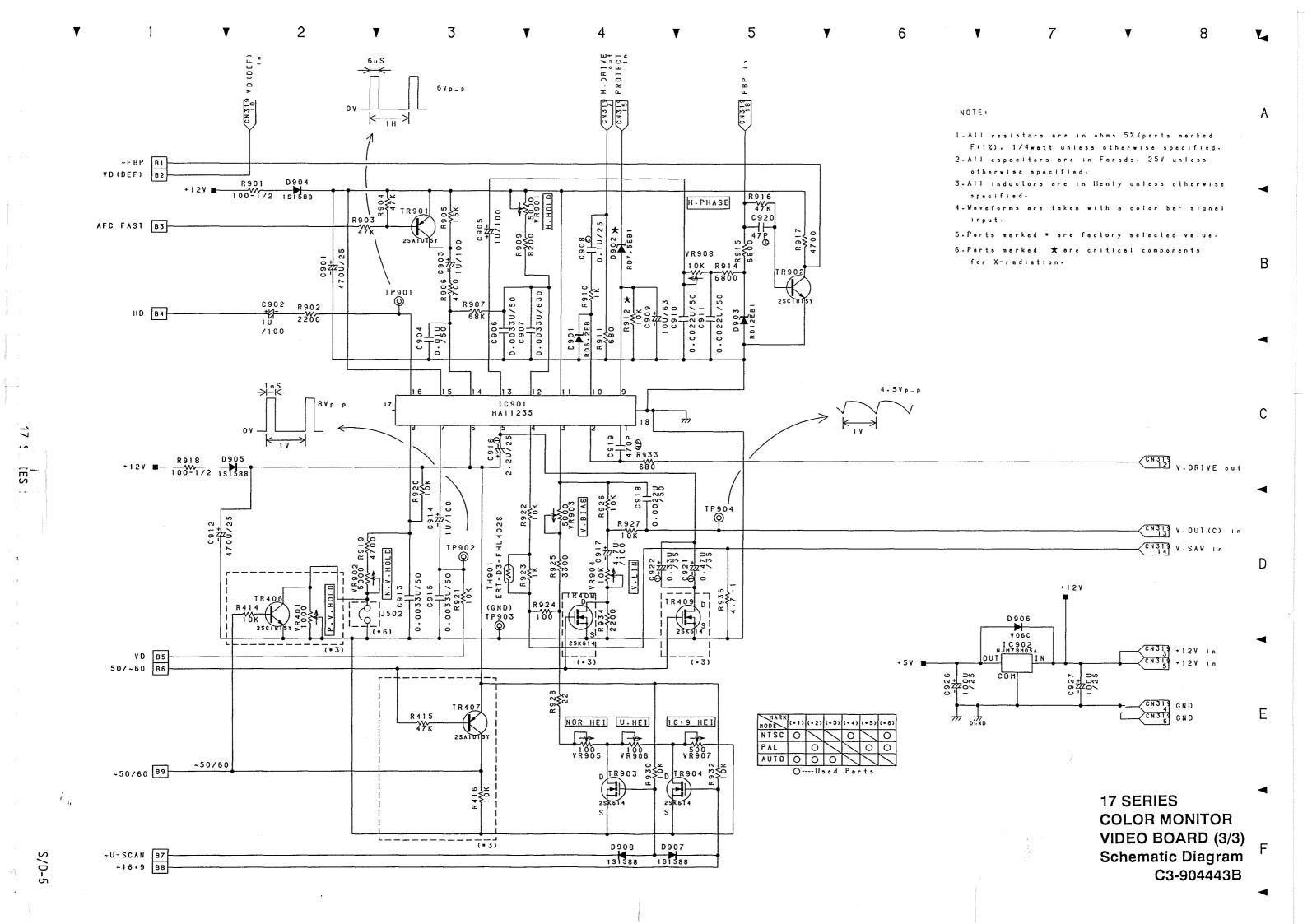
17 SERIES
14" FRONT RIGHT BOARD
Parts Location
P-70507B

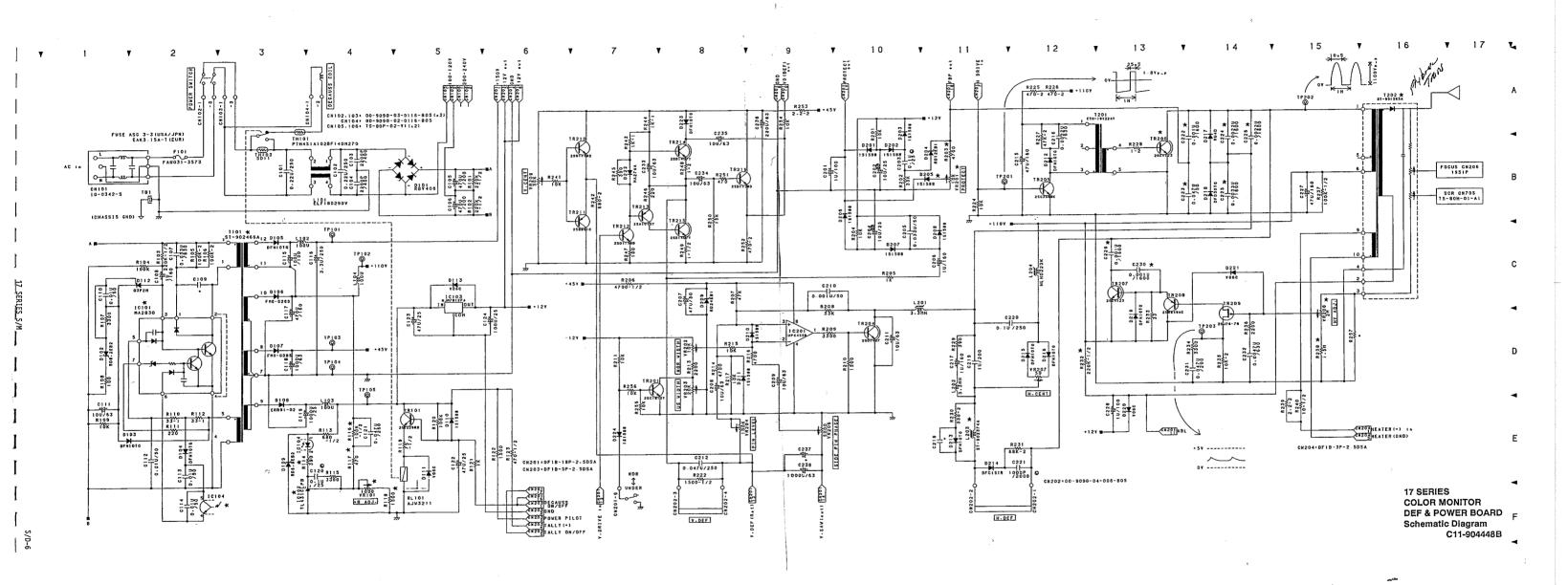


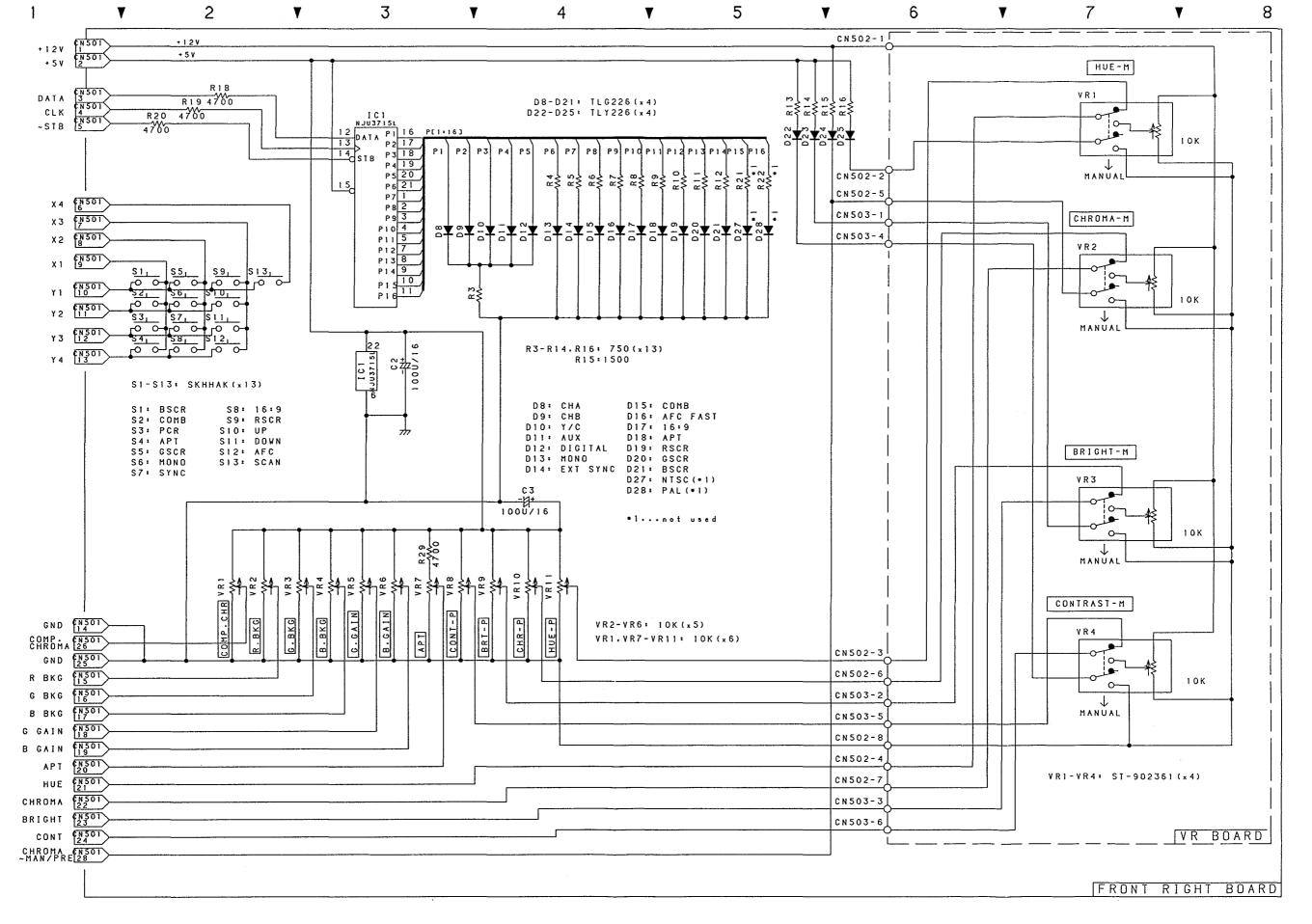
17 SERIES 14" CRT SOCKET BOARD Parts Location P-70511A











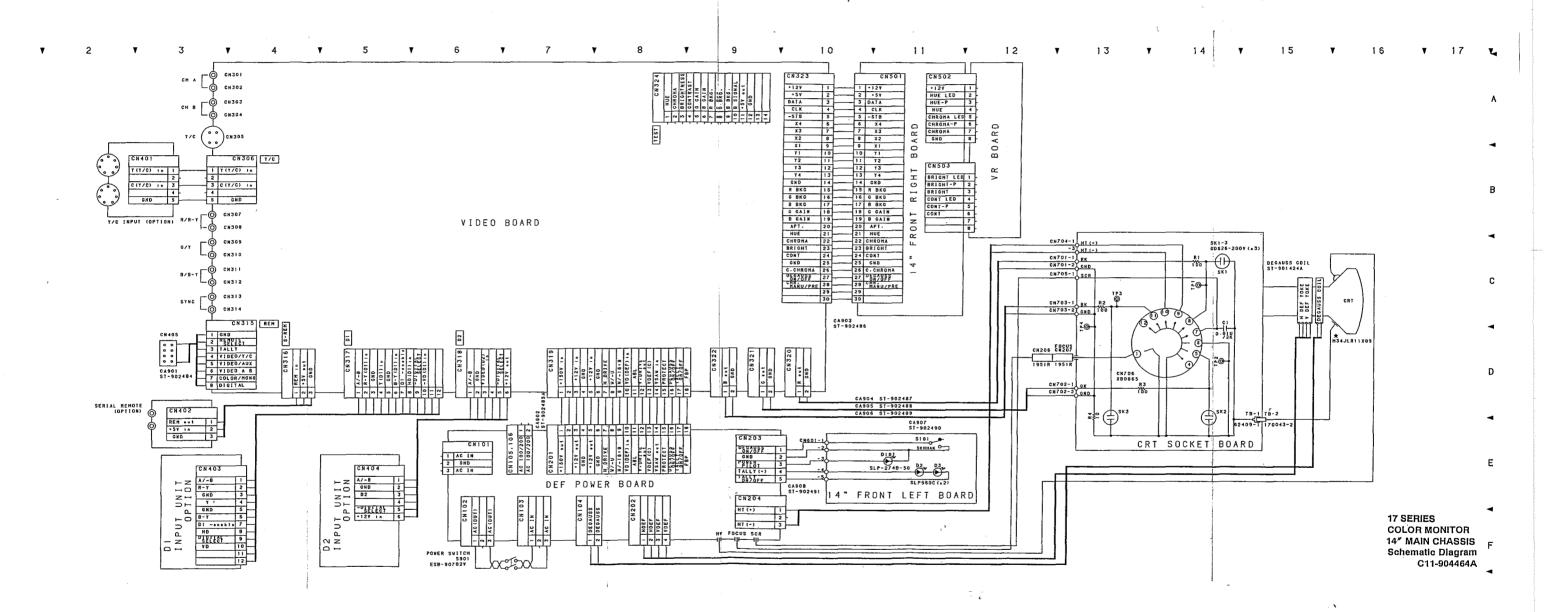
17 SERIES COLOR MONITOR 14"FRONT RIGHT/VR BOARD Schematic Diagram C3-904462A Α

C

D

E

S/D.



#### 4. ELECTRIC PARTS LIST

#### (1) Guide for Reading the Parts List

The parts list for this color monitor consists of the following items.

#### Example:

- (1) VIDEO AMP BOARD
- (2) PARTS NO. (3) DESCRIPTION

(4) MFD.

(5) < INTEGRATED CIRCUITS >

IC101 (CMOS)

 $\mu$  PD4053BC

NEC

IC102 (CMOS)

 $\mu$  PD4528BC

NEC

- (1) ..... Name of unit
- (2) ..... Part No. shown in schematic diagram
- (3) ..... Type designation of parts
- (4) ..... Company name (refer to the next page.)
- (5) ..... Part name

#### Note

- 1. When touching the following parts, pay special attention.
  - CMOS IC, delay line, X tal oscillator, transformer
- 2. Parts marked with \* are for adjustment use.
- 3. Asterisked parts are parts having important factors against X ray radiation.
- 4. All the parts may be subject to change for further improvement.

SMK	SMK Corporation	Japan
SON	Sony Corporation.	Japan
SOS	SOSHIN ELECTRIC CO., LTD.	Japan
SRP	Sharp Corporation	Japan
SSM	SUSUMU CO., LTD.	Japan
STL	STANLEY ELECTRIC CO., LTD.	Japan
SUD	SUMIDA ELECTRIC CO., LTD.	Japan
SWC	SHOWA ELECTRIC WIRE & CABLE CO., LTD.	Japan
SY0	SANYO ELECTRIC CO.,LTD.	Japan
TAD	TAIKC DENKI CO.,LTD.	Japan
TAJ	TAJIMI ELECTRONICS CO., LTD.	Japan
TAM	TAMA ELECTRIC Co., Ltd.	Japan
TDK	TDK Corporation	Japan
TEL	TODAL ELECTRIC LTD.	Japan
TEX	TEXAS INSTRUMENTS	U.S.A.
TKO	TOKO, INC.	Japan
TND	TANAKA ELECTRONICS IND.CO.,LTD.	Japan
TOK	TOKAI COMMUNICATION INDUSTRY CO., LTD.	Japan
TOS	TOSHIBA CORPORATION.	Japan
TYO	TAIYO TSUSHIN KOGYO K.K.	Japan
YTD	YAMATE ELECTRIC CO. LTD.	Japan

#### (3) Parts List

< INDUCTANCE COILS > L 1 ST-901467A

(3) P	arts List	MAIN CI	HASSIS (COMMON)		94058-15040	PP-904966 01 93
NO.	DESCRIPTION		PARTS-CODE	NO.	DESCRIPTION	MFD. PARTS-CODE
< SWIT	CHES >			<b>-</b> -		
S901	ESB-90702V	MAT	20-34323-00201			
< CONN	ECTORS >					
CN102 CN103	60-9090-303-118-006 60-9090-303-118-006	ELC ELC	20-30508-23031 20-30508-23031			
< TEST	POLES >					
TB 2	170043-2	AMP	20-30560-00030			
< OTHE	RS >					
CA901 CA902 CA903 CA904 CA905 CA906 CA907	ST-902484 ST-902485A ST-902486 ST-902487 ST-902488 ST-902489 ST-902490	HIR HIR HIR HIR HIR HIR	20-66995-24840 20-66995-24850 20-66995-24860 20-66995-24870 20-66995-24880 20-66995-24890 20-66995-24900			
	NO.3484-1000	МММ	20-68082-00100			
		MAIN C	HASSIS (14")		94058-15120	PP-904967 01 93
NO.	DESCRIPTION	MFD.	PARTS-CODE	NO.	DESCRIPTION	MFD. PARTS-CODE
< INDU	CTANCE COILS >		•			
L 1	ST-901424A	IKE	20-40985-14240			
< OTHE	RS >					
CA908	ST-902491	HIR	20-66995-24910		ą.	
		MAIN CI	HASSIS (20")		94058-15060	PP-904968 01 93
NO.	DESCRIPTION	MFD.	PARTS-CODE	NO.	DESCRIPTION	MFD. PARTS-CODE

ITC 20-40985-14671

ACCESSORY (COMMON)

94058-15071 PP-904994

01 9308

DESCRIPTION NO.

MFD. PARTS-CODE

NO. DESCRIPTION

MFD. PARTS-CODE

< OTHERS >

S-1608A HIR 20-30391-00200 P-1608A-C-20 HIR 20-30331-00100

Feire Zenik

ACCESSORY (JPN)

94058-15072 PP-905038 01 9308

DESCRIPTION

MFD. PARTS-CODE

NO. DESCRIPTION

MFD. PARTS-CODE

< OTHERS >

VFF0.75SQX2 2.5M NAAD SCS 20-66604-02000

ACCESSORY (USA)

94058-15073 PP-905039

01 9308

DESCRIPTION

MFD. PARTS-CODE

NO. DESCRIPTION

MFD. PARTS-CODE

< OTHERS >

KP-30.SJT/18AWG.KS-16A8FT KDK 20-66603-00100

ACCESSORY (EUR)

94058-15074 PP-905040

01 9308

NO. DESCRIPTION MFD. PARTS-CODE

NO. DESCRIPTION

MFD. PARTS-CODE

< OTHERS >

KP-4819D KS-31A GTCE-3 2M M KDK 20-66603-00200

NO.	DESCRIPTION	MFD.	PARTS-CODE	NO.	DESCRIPTION	MFD.	PARTS-CODE
< INTE	GRATED CIRCUITS >			< TRANS	ISTORS >		
70 1	*C40E9DD	TOS	20-01572-20940	TR503	2SC1815-Y TPE2	TOS	20-02824-05702
IC 1 IC 2	TC4052BP TC4053BP	TOS	20-01572-20940	TR504	2SA1015-Y TPE2	TOS	20-02822-05402
IC 2 IC101	TC4053BP	TOS	20-01572-20950	TR505	2SK192A-GR	TOS	20-02828-01181
IC102	TC4053BP	TOS	20-01572-20950	TR506	2SA1015-Y TPE2	TOS	20-02822-05402
IC103	TC4053BP	TOS	20-01572-20950	TR507	2SC1815-Y TPE2	TOS	20-02824-05702
IC104	TC4053BP	TOS	20-01572-20950	TR508	2SC1815-Y TPE2	TOS	20-02824-05702
IC401	AN5560	MAT	20-01004-05560	TR509	2SC1815-Y TPE2	TOS	20-02824-05702
IC501	TC4053BP	TOS	20-01572-20950	TR510	2SC1815-Y TPE2	TOS	20-02824-05702
IC502	TC4053BP	TOS	20-01572-20950	TR511 TR512	2SC1815-Y TPE2 2SC1815-Y TPE2	TOS TOS	20-02824-05702 20-02824-05702
IC503	TDA4555	PHI PHI	20-01573-64550 20-01573-63500	TR601	2SA1015-Y TPE2	TOS	20-02824-05102
1C601 1C602	TDA3505 TC4053BP	TOS	20-01572-20950	TR602	2SA1015 T TFE2	TOS	20-02822-05402
IC602	TC4053BP	TOS	20-01572-20950	TR603	2SC1815-Y TPE2	TOS	20-02824-05702
IC701	TC4053BP	TOS	20-01572-20950	TR604	2SA1015-Y TPE2	TOS	20-02822-05402
IC702	TC4538BP	TOS	20-01572-26000	TR605	2SA1015-Y TPE2	TOS	20-02822-05402
IC703	TC4538BP	TOS	20-01572-26000	TR606	2SC1815-Y TPE2	TOS	20-02824-05702
IC704	μPD4011BC	NEC	20-01784-20400	TR607	2SA1015-Y TPE2	TOS	20-02822-05402
IC705	TC4538BP	TOS	20-01572-26000	TR608	2SC3790E/F	SY0	20-02824-15100
IC706	TC4081BP	TOS	20-01572-21010	<b>ም</b> ክሮስስ	OTH-126A-B	220 0Y2	20-55518-05260 20-02824-15100
IC707	TC4053BP TC4538BP	TOS TOS	20-01572-20950 20-01572-26000	TR609 TR610	2SC3790E/F 2SA1480E	SY0	20-02824-15100
IC708 IC709	TC4538BP	TOS	20-01572-26000	TR611	2SA1015-Y TPE2	TOS	20-02822-05402
IC710	TC4013BP	TOS	20-01572-20620	TR612	2SC3790E/F	SYO	20-02824-15100
IC711	TC4520BP	TOS	20-01572-21800		OTH-126A-B	088	20-55518-05260
IC712	TC4013BP	TOS	20-01572-20620	TR613	2SC3790E/F	SY0	20-02824-15100
IC802	TD62504P	TOS	20-01573-01100	TR614	2SA1480E	SY0	20-02822-11160
IC803	TD62504P	TOS	20-01573-01100	TR615	2SA1015-Y TPE2	TOS	20-02822-05402
IC804	TL7705CPB	TEX	20-01574-01700	TR616	2SC3790E/F	SYO	20-02824-15100
IC901	HA11235	HIT	20-01211-00700	TDC17	OTH-126A-B	OSS SYO	20-55518-05260 20-02824-15100
IC902	NJM78M05A	JRC	20-01392-00400	TR617 TR618	2SC3790E/F 2SA1480E	SY0	20-02822-11160
< TRAN	SISTORS >			TR701	2SC1815-Y TPE2	TOS	20-02824-05702
\ Inn	101010110 ×			TR702	2SA1015-Y TPE2	TOS	20-02822-05402
TR 1	2SC1815-Y TPE2	TOS	20-02824-05702	TR703	2SA1015-Y TPE2	TOS	20-02822-05402
TR 2	2SC1815-Y TPE2	TOS	20-02824-05702	TR704	2SC1815-Y TPE2	TOS	20-02824-05702
TR 3	2SC1815-Y TPE2	TOS	20-02824-05702	TR705	2SC1815-Y TPE2	TOS	20-02824-05702
TR 4	2SC1815-Y TPE2	TOS	20-02824-05702	TR706	2SC1815-Y TPE2	TOS	20-02824-05702
TR 5	2SC1815-Y TPE2	TOS	20-02824-05702	TR707	2SC1815-Y TPE2	TOS	20-02824-05702
TR 6	2SC1815-Y TPE2	TOS	20-02824-05702	TR708	2SC1815-Y TPE2	TOS TOS	20-02824-05702 20-02824-05702
TR 7 TR 8	2SC1815-Y TPE2	TOS TOS	20-02824-05702 20-02824-05702	TR709 TR710	2SC1815-Y TPE2 2SC1815-Y TPE2	TOS	20-02824-05702
TR 8 TR 9	2SC1815-Y TPE2 2SC1815-Y TPE2	TOS	20-02824-05702	TR711	2SC1815-Y TPE2	TOS	20-02824-05702
TR 10	2SC1815-Y TPE2	TOS	20-02824-05702	TR712	2SA1015-Y TPE2	TOS	20-02822-05402
TR101	2SC1815-Y TPE2	TOS	20-02824-05702	TR713	2SC1815-Y TPE2	TOS	20-02824-05702
TR102	2SC1815-Y TPE2	TOS	20-02824-05702	TR714	2SC1815-Y TPE2	TOS	20-02824-05702
TR103	2SC1815-Y TPE2	TOS	20-02824-05702	TR801	2SC1815-Y TPE2	TOS	20-02824-05702
TR104	2SC2901	NEC	20-02824-08500	TR901	2SA1015-Y TPE2	TOS	20-02822-05402
TR105	2SC1815-Y TPE2	TOS	20-02824-05702	TR902	2SC1815-Y TPE2	TOS	20-02824-05702
TR106	2SC1815-Y TPE2	TOS TOS	20-02824-05702 20-02824-05702	TR903 TR904	2SK614 2SK614	MAT MAT	20-02828-03115 20-02828-03115
TR107 TR108	2SC1815-Y TPE2 2SC2901	NEC	20-02824-03102	11304	Z3R014	lin1	20-02020-03113
TR109	2SC1815-Y TPE2	TOS	20-02824-05702	< DIODI	S >		
TR110	2SC1815-Y TPE2	TOS	20-02824-05702				
TR111	2SC1815-Y TPE2	TOS	20-02824-05702	D 1	1S1588 TPB2	TOS	20-03812-01201
TR112	2SC2901	NEC	20-02824-08500	D 2	1S1588 TPB2	TOS	20-03812-01201
TR201	2SC1815-Y TPE2	TOS	20-02824-05702	D 3	1S1588 TPB2	TOS	20-03812-01201
TR202	2SC1815-Y TPE2	TOS	20-02824-05702	D 4	1S1588 TPB2	TOS	20-03812-01201
TR203	2SC1815-Y TPE2	TOS	20-02824-05702	D 5	1S1588 TPB2	TOS	20-03812-01201
TR204	2SC1815-Y TPE2	TOS TOS	20-02824-05702	D 6 D 7	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201 20-03812-01201
TR205 TR301	2SC1815-Y TPE2 2SC1815-Y TPE2	TOS TOS	20-02824-05702 20-02824-05702	D101	151588 TPB2 151588 TPB2	TOS	20-03812-01201
TR301	2SC1815-Y TPE2	TOS	20-02824-05702	D102	1S1588 TPB2	TOS	20-03812-01201
TR302	2SC1815-Y TPE2	TOS	20-02824-05702	D103	1S1588 TPB2	TOS	20-03812-01201
TR304	2SC1815-Y TPE2	TOS	20-02824-05702	D104	1S1588 TPB2	TOS	20-03812-01201
TR306	2SC1815-Y TPE2	TOS	20-02824-05702	D105	1S1588 TPB2	TOS	20-03812-01201
TR307	2SC1815-Y TPE2	TOS	20-02824-05702	D106	1S1588 TPB2	TOS	20-03812-01201
TR401	2SC1815-Y TPE2	TOS	20-02824-05702	D107	1S1588 TPB2	TOS	20-03812-01201
TR402	2SC1815-Y TPE2	TOS	20-02824-05702	D108	1S1588 TPB2	TOS	20-03812-01201
TR404	2SA1015-Y TPE2	TOS	20-02822-05402	D109	1S1588 TPB2	TOS	20-03812-01201 PAR 20-03812-01201 RT
TR405	2SA1015-Y TPE2 2SC1815-Y TPE2	TOS TOS	20-02822-05402 20-02824-05702	D110 D111	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201
TR406 TR407	2SA1015-Y TPE2	TOS	20-02822-05402	D111 D112	1S1588 TPB2	TOS	20-03812-01201
TR407	2SK614	MAT	20-02828-03115	D112 D113	1S1588 TPB2	TOS	20-03812-01201
TR409	2SK614	MAT	20-02828-03115	D201	1S1588 TPB2	TOS	20-03812-01201 🗸
TR501	2SC1815-Y TPE2	TOS	20-02824-05702	D202	1S1588 TPB2	TOS	20-03812-01201
TR502	2SA1015-Y TPE2	TOS	20-02822-05402	D301	1S1588 TPB2	TOS	20-03812-01201 🕏

NO.	DESCRIPTION	MFD.	PARTS-CODE		NO.	DESCRIPTION	MFD.	PARTS-CODE
< DIOD	ES >				< RESI	STORS >		
2000	101500 #DD0	TOC	20-03812-01201		R 19	ERDS2TJ 101 T	MAT	20-12108-10113
D302 D601	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201		R 21	ERDS2TJ 473 T	MAT	20-12108-10113
D602	1S1588 TPB2	TOS	20-03812-01201		R 22	ERDS2TJ 473 T	MAT	20-12108-47313
D603	1S1588 TPB2	TOS	20-03812-01201		R 23	ERDS2TJ 473 T	MAT	20-12108-47313
D604 D605	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201 20-03812-01201		R 24 R 25	ERDS2TJ 101 T ERDS2TJ 473 T	MAT MAT	20-12108-10113 20-12108-47313
D606	1S1588 TPB2	TOS	20-03812-01201		R 26	ERDS2TJ 222 T	MAT	20-12108-22213
D607	1S1588 TPB2	TOS	20-03812-01201		R 27	ERDS1VJ 100 T	MAT	20-12106-10033
D608	1S1588 TPB2	TOS	20-03812-01201		R 28 R 29	ERDS2TJ 473 T ERDS2TJ 101 T	MAT MAT	20-12108-47313 20-12108-10113
D609 D610	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201 20-03812-01201		R 30	ERDS213 101 1 ERDS2TJ 473 T	MAT	20-12108-10113
D611	1S1588 TPB2	TOS	20-03812-01201		R 31	ERDS2TJ 222 T	MAT	20-12108-22213
D612	1S1588 TPB2	TOS	20-03812-01201		R 32	ERDS2TJ 473 T	MAT	20-12108-47313
D701 D702	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201 20-03812-01201		R 33 R 34	ERDS2TJ 101 T ERDS2TJ 473 T	MAT Mat	20-12108-10113 20-12108-47313
D702 D703	1S1588 TPB2	TOS	20-03812-01201		R 35	ERDS2TJ 222 T	MAT	20-12108-22213
D705	1S1588 TPB2	TOS	20-03812-01201		R 36	ERDS2TJ 103 T	MAT	20-12108-10313
D708	1S1588 TPB2	TOS	20-03812-01201		R 37 R 38	ERDS2TJ 103 T ERDS2TJ 103 T	MAT MAT	20-12108-10313 20-12108-10313
D709 D710	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201 20-03812-01201		к зо R 39	ERDS2TJ 333 T	MAT	20-12108-33313
D713	1S1588 TPB2	TOS	20-03812-01201		R 40	ERDS2TJ 473 T	MAT	20-12108-47313
D714	1S1588 TPB2	TOS	20-03812-01201		R 41	ERDS2TJ 473 T	MAT	20-12108-47313
D715	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201 20-03812-01201		R 42 R 43	ERDS2TJ 333 T ERDS2TJ 473 T	MAT Mat	20-12108-33313 20-12108-47313
D716 D717	1S1588 TPB2	TOS	20-03812-01201		R 44	ERDS2TJ 473 T	MAT	20-12108-47313
D718	1S1588 TPB2	TOS	20-03812-01201		R 45	ERDS2TJ 222 T	MAT	20-12108-22213
D719	1S1588 TPB2	TOS TOS	20-03812-01201 20-03812-01201		R 46 R 47	ERDS2TJ 473 T ERDS2TJ 473 T	MAT MAT	20-12108-47313 20-12108-47313
D720 D801	1S1588 TPB2 1S1588 TPB2	TOS	20-03812-01201		R101	ERDS2TJ 101 T	MAT	20-12108-10113
D802	1S1588 TPB2	TOS	20-03812-01201		R102	ERDS2TJ 473 T	MAT	20-12108-47313
D803	1S1588 TPB2	TOS	20-03812-01201		R103	ERDS2TJ 473 T ERDS2TJ 473 T	MAT MAT	20-12108-47313 20-12108-47313
D804 D805	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201 20-03812-01201		R104 R105	ERDS2TJ 152 T	MAT	20-12108-15213
D806	1S1588 TPB2	TOS	20-03812-01201		R106	ERDS2TJ 222 T	MAT	20-12108-22213
D807	1S1588 TPB2	TOS	20-03812-01201		R107	ERDS2TJ 152 T	MAT	20-12108-15213
D808 D809	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201 20-03812-01201		R108 R109	ERDS2TJ 222 T ERDS2TJ 152 T	MAT Mat	20-12108-22213 20-12108-15213
D810	1S1588 TPB2	TOS	20-03812-01201		R110	ERDS2TJ 101 T	MAT	20-12108-10113
D811	1S1588 TPB2	TOS	20-03812-01201		R111	ERDS2TJ 473 T	MAT	20-12108-47313
D812	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201 20-03812-01201		R112 R113	ERDS2TJ 473 T ERDS2TJ 222 T	MAT MAT	20-12108-47313 20-12108-22213
D813 D814	1S1588 TPB2	TOS	20-03812-01201		R114	ERDS2TJ 473 T	MAT	20-12108-47313
D815	1S1588 TPB2	TOS	20-03812-01201		R115	erds2tj 683 t	MAT	20-12108-68313
D816	MA700A	MAT	20-03363-00700		R116	ERDS2TJ 101 T	MAT	20-12108-10113 20-12108-47213
D817 D818	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201 20-03812-01201		R117 R118	ERDS2TJ 472 T ERDS2TJ 222 T	MAT MAT	20-12108-22213
D819	1S1588 TPB2	TOS	20-03812-01201		R119	ERDS2TJ 103 T	TAM	20-12108-10313
D901	RD6.2EB	NEC	20-03513-01600		R120	ERDS1VJ 100 T	MAT	20-12106-10033
★ D902 D903	RD7.5EB1 RD12EB1	NEC NEC	20-03513-01905 20-03513-02505		R121 R122	ERDS2TJ 101 T ERDS2TJ 473 T	TAM TAM	20-12108-10113 20-12108-47313
D904	1S1588 TPB2	TOS	20-03812-01201		R123	ERDS2TJ 473 T	MAT	20-12108-47313
D905	1S1588 TPB2	TOS	20-03812-01201		R124	ERDS2TJ 152 T	MAT	20-12108-15213
D906	V06C	HIT	20-03631-00200 20-03812-01201		R125 R126	ERDS2TJ 222 T ERDS2TJ 332 T	MAT MAT	20-12108-22213 20-12108-33213
D907 D908	1S1588 TPB2 1S1588 TPB2	TOS TOS	20-03812-01201		R127	ERDS2TJ 222 T	MAT	20-12108-33213
	1-1000				R128	ERDS2TJ 152 T	MAT	20-12108-15213
< RESI	STORS >				R129	ERDS2TJ 101 T	MAT	20-12108-10113
R 1	ERDS2TJ 473 T	MAT	20-12108-47313		R130 R131	ERDS2TJ 473 T ERDS2TJ 473 T	MAT MAT	20-12108-47313 20-12108-47313
R 2	ERDS2TJ 101 T	MAT	20-12108-10113		R132	ERDS2TJ 222 T	MAT	20-12108-22213
R 3	ERDS2TJ 473 T	MAT	20-12108-47313		R133	ERDS2TJ 683 T	MAT	20-12108-68313
R 4 R 5	ERDS2TJ 222 T ERDS2TJ 473 T	MAT MAT	20-12108-22213 20-12108-47313		R134 R135	ERDS2TJ 101 T ERDS2TJ 472 T	MAT MAT	20-12108-10113 20-12108-47213
R 6	ERDS2TJ 101 T	MAT	20-12108-47313		R136	ERDS2TJ 222 T	MAT	20-12108-22213
R 7	ERDS2TJ 473 T	MAT	20-12108-47313		R137	ERDS2TJ 103 T	MAT	20-12108-10313
R 8	ERDS2TJ 222 T	MAT	20-12108-22213		R138	ERDS2TJ 101 T	MAT	20-12108-10113 20-12108-47313
R 9 R 10	ERDS2TJ 473 T ERDS2TJ 101 T	MAT Mat	20-12108-47313 20-12108-10113		R139 R140	ERDS2TJ 473 T ERDS2TJ 473 T	MAT MAT	20-12108-47313
P R 11	ERDS2TJ 473 T	MAT	20-12108-47313		R141	ERDS2TJ 152 T	MAT	20-12108-15213
PARTS	ERDS2TJ 222 T	MAT	20-12108-22213		R142	ERDS2TJ 222 T	MAT	20-12108-22213
√ R 13 R 14	ERDS2TJ 750 T ERDS2TJ 750 T	MAT MAT	20-12108-75013 20-12108-75013		R143 R144	ERDS2TJ 102 T ERDS2TJ 152 T	TAM TAM	20-12108-10213 20-12108-15213
R 15	ERDS2TJ 473 T	MAT	20-12108-47313		R145	ERDS2TJ 222 T	TAM	20-12108-22213
IS R 16	ERDS2TJ 101 T	MAT	20-12108-10113		R146	ERDS2TJ 101 T	MAT	20-12108-10113
☐ R 15 R 16 R 17 R 18	ERDS2TJ 473 T ERDS2TJ 222 T	MAT MAT	20-12108-47313 20-12108-22213		R147 R148	ERDS2TJ 473 T ERDS2TJ 473 T	TAM Tam	20-12108-47313 20-12108-47313
· R 18	ENUSCIJ 224 I	HAI	C1277_0A171_07		W140	ENDOLIS 410 i	imi	PO 19100 44010
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DESCRIPTION

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R150	ERDS2TJ 683 T	MAT	20-12108-68313	R512	ERDS2TJ 683 T	MAT	20-12108-68313
R151	ERDS2TJ 101 T	MAT		* R513	**************************************	144.00	00 10100 00110
R152	ERDS2TJ 472 T	MAT	20-12108-47213	R514	ERDS2TJ 331 T	TAM	20-12108-33113
R153	ERDS2TJ 222 T	MAT	20-12108-22213	R515	ERDS2TJ 560 T	TAM	20-12108-56013
R154	ERDS2TJ 472 T	MAT	20-12108-47213	R516	ERDS2TJ 223 T ERDS2TJ 333 T	MAT MAT	20-12108-22313
R155	ERDS2TJ 102 T ERDS2TJ 101 T	MAT Mat	20-12108-10213 20-12108-10113	R517 R518	ERDS2TJ 331 T	MAT	20-12108-33313 20-12108-33113
R201 R202	ERDS2TJ 331 T	MAT	20-12108-33113	R519	ERDS2TJ 331 T	MAT	20-12108-33113
R202	ERDS2TJ 101 T	MAT	20-12108-10113	R520	ERDS2TJ 220 T	MAT	20-12108-22013
R204	ERDS2TJ 222 T	MAT	20-12108-22213	R521	ERDS2TJ 223 T	MAT	20-12108-22313
R205	ERDS2TJ 331 T	MAT	20-12108-33113	R522	ERDS2TJ 683 T	MAT	20-12108-68313
R206	ERDS2TJ 152 T	MAT	20-12108-15213	R523	ERDS2TJ 471 T	MAT	20-12108-47113
R207	ERDS2TJ 473 T	MAT	20-12108-47313	R524	ERDS1VJ 100 T	MAT	20-12106-10033
R208	ERDS2TJ 103 T	MAT	20-12108-10313	R525	ERDS2TJ 103 T	MAT	20-12108-10313
R209	ERDS2TJ 103 T	MAT	20-12108-10313	R526	ERDS2TJ 472 T	MAT	20-12108-47213
R210	ERDS2TJ 221 T	MAT	20-12108-22113	R527	ERDS2TJ 103 T	TAM	20-12108-10313
R211	ERDS2TJ 470 T	MAT	20-12108-47013	R528	ERDS2TJ 472 T	MAT	20-12108-47213
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R213	ERDS2TJ 472 T	MAT	20-12108-47213	R530	ERDS2TJ 203 T	MAT	20-12108-20313
R214	ERDS2TJ 471 T	MAT	20-12108-47113	R531 R532	ERDS2TJ 472 T ERDS2TJ 562 T	MAT Mat	20-12108-47213 20-12108-56213
R215 R216	ERDS2TJ 471 T ERDS2TJ 152 T	MAT MAT	20-12108-47113 20-12108-15213	R532	ERDS2TJ 103 T	MAT	20-12108-30213
R217	ERDS2TJ 152 T	MAT	20-12108-15213	R534	ERDS2TJ 103 T	MAT	20-12108-10313
R218	ERDS2TJ 472 T	MAT	20-12108-47213	R535	ERDS2TJ 472 T	MAT	20-12108-47213
R220	ERDS2TJ 102 T	MAT	20-12108-10213	R536	ERDS2TJ 103 T	MAT	20-12108-10313
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R303	ERDS2TJ 103 T	MAT	20-12108-10313	R539	ERDS2TJ 821 T	MAT	20-12108-82113
R304	ERDS2TJ 103 T	MAT	20-12108-10313	R540	ERDS2TJ 101 T	MAT	20-12108-10113
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R306	ERDS2TJ 221 T	MAT	20-12108-22113	R542	ERDS2TJ 104 T	MAT	20-12108-10413
R307	ERDS2TJ 470 T	MAT	20-12108-47013	R601	ERDS1VJ 100 T	MAT	20-12106-10033
R308	ERDS2TJ 152 T	MAT	20-12108-15213	R602	ERDS2TJ 473 T	MAT	20-12108-47313
R309	ERDS2TJ 222 T	MAT	20-12108-22213	R603	ERDS2TJ 103 T	MAT MAT	20-12108-10313 20-12108-18213
R310 R311	ERDS2TJ 223 T ERDS2TJ 223 T	MAT MAT	20-12108-22313 20-12108-22313	R604 R605	ERDS2TJ 182 T ERDS2TJ 203 T	MAT	20-12108-10213
R313	ERDS2TJ 102 T	MAT	20-12108-10213	R606	ERDS2TJ 472 T	MAT	20-12108-47213
R320	ERDS2TJ 102 T	MAT	20-12108-10213	R607	ERDS2TJ 203 T	MAT	20-12108-20313
R321	ERDS2TJ 473 T	MAT	20-12108-47313	R608	ERDS2TJ 472 T	MAT	20-12108-47213
R322	ERDS2TJ 473 T	MAT	20-12108-47313	R609	ERDS2TJ 473 T	MAT	20-12108-47313
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R324	ERDS2TJ 561 T	MAT	20-12108-56113	R611	ERDS2TJ 103 T	MAT	20-12108-10313
R325	ERDS2TJ 682 T	MAT	20-12108-68213	R612	ERDS2TJ 562 T	MAT	20-12108-56213
R326	ERDS2TJ 332 T	MAT	20-12108-33213	R613	ERDS2TJ 562 T	MAT	20-12108-56213
R327	ERDS2TJ 561 T	MAT	20-12108-56113	R614	ERDS2TJ 333 T	MAT	20-12108-33313
R328	ERDS2TJ 153 T	MAT	20-12108-15313	R615	ERDS2TJ 222 T	MAT	20-12108-22213
R329	ERDS2TJ 472 T	MAT	20-12108-47213	R616	ERDS2TJ 222 T	MAT	20-12108-22213
R331	ERDS2TJ 102 T	MAT	20-12108-10213	R617	ERDS2TJ 153 T	MAT	20-12108-15313
R332	ERDS2TJ 391 T	MAT	20-12108-39113 20-10355-12211	R618	ERDS2TJ 153 T	MAT MAT	20-12108-15313 20-12108-15313
R333 R334	RN26C 2E 1200ΩFT RN26C 2E 180ΩFT	KOA Koa	20-10355-12211	R619 R620	ERDS2TJ 153 T ERDS2TJ 473 T	MAT	20-12108-13313
R336	RN26C 2E 43KΩFT	KOA	20-10355-43311	R621	ERDS2TJ 473 T	MAT	20-12108-47313
R401	ERDS2TJ 103 T	MAT	20-12108-10313	R622	ERDS2TJ 101 T	MAT	20-12108-10113
R402	ERDS2TJ 103 T	MAT	20-12108-10313	R623	ERDS2TJ 101 T	MAT	20-12108-10113
R403	ERDS2TJ 103 T	MAT	20-12108-10313	R624	ERDS2TJ 472 T	MAT	20-12108-47213
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R408	ERDS2TJ 103 T	MAT	20-12108-10313	R626	ERDS2TJ 472 T	MAT	20-12108-47213
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R411	ERDS2TJ 222 T	MAT	20-12108-22213	R629	ERDS2TJ 153 T	MAT	20-12108-15313
R412	ERDS2TJ 473 T	MAT	20-12108-47313	R630	ERDS2TJ 473 T	MAT	20-12108-47313
R413	ERDS2TJ 473 T	MAT	20-12108-47313	R631	ERDS2TJ 472 T	MAT	20-12108-47213
R414	ERDS2TJ 103 T	MAT	20-12108-10313	R632	ERDS2TJ 153 T	TAM	20-12108-15313
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R416 R501	ERDS2TJ 103 T ERDS2TJ 101 T	MAT MAT	20-12108-10313 20-12108-10113	R634 R635	ERDS2TJ 472 T ERDS2TJ 153 T	TAM TAM	20-12108-15313
R501	ERDS2TJ 222 T	MAT	20-12108-22213	R636	ERDS2TJ 472 T	MAT	20-12108-47213
R503	ERDS2TJ 152 T	MAT	20-12108-22213	R637	ERDS2TJ 103 T	MAT	AA 4A4AA 4AA4A U
R504	ERDS2TJ 152 T	MAT	20-12108-15213	R638	ERDS2TJ 472 T	TAM	20-12108-47213
R505	ERDS2TJ 473 T	MAT	20-12108-47313	R639	ERDS2TJ 561 T	MAT	20-12108-56113
R506	ERDS2TJ 473 T	MAT	20-12108-47313	R640	ERDS2TJ 561 T	MAT	20-12108-56113
R507	ERDS2TJ 681 T	MAT	20-12108-68113	R641	ERDS2TJ 681 T	MAT	20-12108-68113
R508	ERDS2TJ 681 T	MAT	20-12108-68113	R642	ERDS2TJ 152 T	MAT	20-12108-15213
R509	ERDS2TJ 101 T	MAT	20-12108-10113	R643	ERDS2TJ 101 T	TAM	20-12108-10113
R510	ERDS2TJ 472 T	MAT	20-12108-47213	R645	ERDS1VJ 100 T	MAT	20-12106-10033 ∞

NO.

DESCRIPTION

VIDEO BOARD

MFD. PARTS-CODE

94058-15020

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	R648	ERDS2TJ 152 T	MAT	20-12108-15213	R751	ERDS2TJ 103 T	MAT	20-12108-10313
	R649	ERDS2TJ 102 T	MAT	20-12108-10213	R752	ERDS2TJ 472 T	MAT	20-12108-47213
	R650	ERG-2SJ 682	MAT	20-11019-68243	R753	RN26C 2E 150KΩFT	KOA	20-10355-15411
	R651	ERDS2TJ 102 T	MAT	20-12108-10213	R754	RN26C 2E 33KΩFT ERDS2TJ 104 T	KOA Mat	20-10355-33311 20-12108-10413
	R652	ERG-2SJ 223 ERDS2TJ 563 T	MAT MAT	20-11019-22343 20-12108-56313	R755 R756	ERDS2TJ 104 T	MAT	20-12108-10413
	R653 R654	ERDS2TJ 333 T	MAT	20-12108-30313	R757	ERDS1VJ 100 T	MAT	20-12106-10033
	R655	ERDS2TJ 471 T	MAT	20-12108-47113	R801	ERDS2TJ 101 T	MAT	20-12108-10113
	R656	ERDS2TJ 471 T	MAT	20-12108-47113	R802	ERDS2TJ 103 T	MAT	20-12108-10313
	R657	ERDS2TJ 152 T	MAT	20-12108-15213	R803	ERDS2TJ 103 T	MAT	20-12108-10313
	R658	ERDS2TJ 102 T	MAT	20-12108-10213	R804	ERDS2TJ 103 T	MAT MAT	20-12108-10313
	R659	ERG-2SJ 682 ERDS2TJ 102 T	MAT MAT	20-11019-68243 20-12108-10213	R805 R806	ERDS2TJ 103 T ERDS2TJ 222 T	MAT	20-12108-10313 20-12108-22213
	R660 R661	ERG-2SJ 223	MAT	20-11019-22343	R807	ERDS2TJ 153 T	MAT	20-12108-15313
	R662	ERDS2TJ 563 T	MAT	20-12108-56313	R812	ERDS2TJ 102 T	MAT	20-12108-10213
	R663	ERDS2TJ 333 T	MAT	20-12108-33313	R814	ERDS2TJ 102 T	MAT	20-12108-10213
	R664	ERDS2TJ 471 T	MAT	20-12108-47113	R815	ERDS2TJ 102 T	MAT	20-12108-10213
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	R666	ERDS2TJ 152 T	MAT	20-12108-15213	R817 R818	ERDS2TJ 102 T ERDS2TJ 103 T	MAT MAT	20-12108-10213 20-12108-10313
	R667 R668	ERDS2TJ 102 T ERG-2SJ 682	MAT MAT	20-12108-10213 20-11019-68243	R819	ERDS2TJ 103 T	MAT	20-12108-10313
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	R671	ERDS2TJ 563 T	MAT	20-12108-56313	R822	ERDS2TJ 101 T	MAT	20-12108-10113
	R672	ERDS2TJ 333 T	MAT	20-12108-33313	R823	ERDS2TJ 101 T	TAM	20-12108-10113
	R673	ERDS2TJ 331 T	MAT	20-12108-33113	R824	ERDS2TJ 101 T	TAM	20-12108-10113
	R674	ERDS2TJ 331 T	MAT	20-12108-33113 20-12108-33113	R825 R826	ERDS2TJ 101 T ERDS2TJ 101 T	TAM TAM	20-12108-10113 20-12108-10113
	R675 R701	ERDS2TJ 331 T ERDS2TJ 101 T	MAT MAT	20-12108-10113	R827	ERDS2TJ 101 T	MAT	20-12108-10113
	R702	ERDS2TJ 473 T	TAM	20-12108-47313	R828	ERDS2TJ 101 T	MAT	20-12108-10113
	R703	ERDS2TJ 103 T	MAT	20-12108-10313	R829	ERDS2TJ 101 T	MAT	20-12108-10113
	R704	ERDS2TJ 102 T	MAT	20-12108-10213	R830	ERDS2TJ 101 T	MAT	20-12108-10113
	R705	ERDS2TJ 331 T	MAT	20-12108-33113	R831	ERDS2TJ 101 T	MAT	20-12108-10113
	R706	ERDS2TJ 152 T	MAT	20-12108-15213	R832	ERDS2TJ 101 T	MAT	20-12108-10113
	R707	ERDS2TJ 222 T	MAT MAT	20-12108-22213 20-12108-33113	R901 R902	ERDS1VJ 101 T ERDS2TJ 222 T	MAT MAT	20-12106-10123 20-12108-22213
	R708 R709	ERDS2TJ 331 T ERDS2TJ 331 T	MAT	20-12108-33113	R903	ERDS2TJ 473 T	MAT	20-12108-47313
	R710	ERDS2TJ 474 T	MAT	20-12108-47413	R904	ERDS2TJ 473 T	MAT	20-12108-47313
	R711	ERDS2TJ 332 T	MAT	20-12108-33213	R905	ERDS2TJ 153 T	MAT	20-12108-15313
	R712	ERDS2TJ 102 T	MAT	20-12108-10213	R906	ERDS2TJ 472 T	MAT	20-12108-47213
	R713	ERDS2TJ 101 T	MAT	20-12108-10113	R907	ERDS2TJ 683 T	TAN	20-12108-68313
	R714	ERDS2TJ 473 T	TAM	20-12108-47313	R909	ERDS2TJ 822 T	MAT MAT	20-12108-82213 20-12108-10213
	R715 R716	ERDS2TJ 103 T ERDS2TJ 472 T	MAT MAT	20-12108-10313 20-12108-47213	R910 R911	ERDS2TJ 102 T ERDS2TJ 681 T	MAT	20-12108-68113
	R717	ERDS2TJ 472 T	MAT		R912	ERDS2TJ 103 T	MAT	20-12108-10313
	R718	RN26C 2E 39KQFT	KOA	20-10355-39311	R914	ERDS2TJ 682 T	MAT	20-12108-68213
	R719	ERDS2TJ 473 T	MAT	20-12108-47313	R915	ERDS2TJ 682 T	MAT	20-12108-68213
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	R721	ERDS2TJ 154 T	MAT	20-12108-15413	R917	ERDS2TJ 472 T	MAT	20-12108-47213
	R722 R723	ERDS2TJ 103 T ERDS2TJ 473 T	MAT MAT	20-12108-10313 20-12108-47313	R918 R919	ERDS1VJ 101 T ERDS2TJ 472 T	MAT MAT	20-12106-10123 20-12108-47213
	R724	ERDS1VJ 100 T	MAT	20-12106-10033	R920	ERDS2TJ 103 T	MAT	20-12108-10313
	R725	RN26C 2E 33KΩFT	KOA	20-10355-33311	R921	ERDS2TJ 103 T	MAT	20-12108-10313
	R726	RN26C 2E 24KΩFT	KOA	20-10355-24311	R922	ERDS2TJ 103 T	MAT	20-12108-10313
	R727	ERDS2TJ 102 T	MAT	20-12108-10213	R923	ERDS2TJ 102 T	TAM	20-12108-10213
	R729	ERDS2TJ 682 T	MAT	20-12108-68213	R924	ERDS2TJ 101 T	MAT	20-12108-10113
	R730	ERDS2TJ 682 T	MAT	20-12108-68213	R925	ERDS2TJ 332 T 🖟	MAT	20-12108-33213
	R731	ERDS2TJ 472 T ERDS2TJ 393 T	MAT MAT	20-12108-47213 20-12108-39313	R926 R927	ERDS2TJ 103 T ERDS2TJ 103 T	MAT MAT	20-12108-10313 20-12108-10313
	R733 R734	RN26C 2E 68KQFT	KOA	20-12106-35313	R928	ERDS2TJ 220 T	MAT	20-12108-22013
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	R740	ERDS2TJ 103 T ERDS2TJ 472 T	MAT MAT	20-12108-10313 20-12108-47213	VR101	RG-06UT2 5KΩ	cos	20-15549-50200
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و	n140	LUDGIJ LEG I	tiu I	PA 17100.77719	4 11 ZUZ	NG COOLS TAX	<del></del>	PO 10040 1000

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VR303	RG-06UT2 200Ω RG-06UT2 1KΩ	COS	20-15549-10200			C402	ECEA 1EU470 B	TAM	20-20123-47625
VR401	RG-06UT2 2KΩ	COS	20-15549-20200			C404	ECEA 2AUOR47 B	TAM	20-20123-47472
VR501	RG-06012 2KΩ	COS	20-15549-50200			C501	ECEA 1EU470 B	TAM	20-20123-47625
VR502	RG-06012 5KΩ	COS	20-15549-50200		*	C502	ECCA IDO410 B	IIII	20 20120 41020
VR503 VR601	RG-06012 3κΩ RG-060T2 10KΩ	COS	20-15549-10300		·	C503	RT-HE40 TKSL 470K	KCK	20-24518-47050
* VR703	RG-00012 10R2	000	20 10040 10000			C504	ECEA 1EU470 B	MAT	20-20123-47625
* VR705						C505	RT-HE40 TKSL 620K	KCK	20-24518-62050
VR901	RG-06UT2 5KΩ	COS	20-15549-50200		*	C506			20 24010 02000
VR901 VR902	RG-06UT2 5KΩ	COS	20-15549-50200			C507	ECQ-B 1H102JZ4	MAT	20-22136-10250
VR903	RG-06UT2 5KΩ	COS	20-15549-50200			C508	ECEA 1EU470 B	MAT	20-20123-47625
VR904	RG-06UT2 10KΩ	COS	20-15549-10300			C509	RT-DSKC85TK YF 104Z		20-24518-10425
VR905	RG-06UT2 100Ω	COS	20-15549-10100			C510	ECEA 1EU471 B	MAT	20-20123-47725
VR906	RG-06UT2 100Ω	COS	20-15549-10100			C511	ECQ-B 1H223JZ4	MAT	20-22136-22350
VR907	RG-06UT2 500Ω A	COS	20-15549-50100		*	C512	200 2 1.1220021		20 20200
VR908	RG-06UT2 10KΩ	COS	20-15549-10300			C513			
VKOO	RG-OGOIZ TORM	003	20 10045 10000			C514	RT-DSKC85TK YF 104Z	KCK	20-24518-10425
TH901	ERT-D 3FHL 402S	MAT	20-19005-00100			C515	ECEA 1EU471 B	MAT	20-20123-47725
111301	ERI D OF HE 4025	*****	20 10000 00100			C516	ECEA 2AUO10 B	MAT	20-20123-10572
< CADA	CITORS >					C517	ECQ-B 1H103JZ4	MAT	20-22136-10350
V On ⊓	CITORS >					C518	ECQ-V 1H473JZ2	MAT	20-22137-47350
C 1	ECEA 1JU100 B	MAT	20-20123-10663			C519	ECEA 2AUOR47 B	MAT	20-20123-47472
C 2	ECEA 1JU100 B	MAT	20-20123-10663			C520	ECQ-B 1H223JZ4	MAT	20-22136-22350
C 3	ECEA 1JU100 B	MAT	20-20123-10663			C521	ECQ-B 1H223JZ4	MAT	20-22136-22350
C 4	ECEA 1JU100 B	MAT	20-20123-10663		*	C524	LOG B THELOUZE		20 22100 22000
C 5	ECEA 1JU100 B	MAT	20-20123-10663			C525			
C 6	RT-DSKC85TK YF 104Z	KCK	20-24518-10425		·	C526	RT-HE70-TKSL 241K	KCK	20-24518-24150
C 7	ECEA 1EU101 B	MAT	20-20123-10725			C527	RT-HE40 TKSL 100K	KCK	20-24518-10050
C 8	ECEA 1JU100 B	MAT	20-20123-10123			C528	RT-HE40 TKSL 100K	KCK	20-24518-10050
	ECEA 1JU100 B	MAT	20-20123-10663			C529	RT-HE40 TKSL 120K	KCK	20-24518-12050
C 9		MAT	20-20123-10663			C601	RT-DSKC85TK YF 104Z	KCK	20-24518-10425
C 10	ECEA 1JU100 B		20-20123-10003			C602	ECEA 1EU221 B	MAT	20-20123-22725
C101	ECEA 1EU470 B	MAT	20-20123-41023			C603	ECQ-B 1H223JZ4	MAT	20-22136-22350
* C102	DODA 1011470 D	MAT	00 00100 47000				ECQ-B 1H223JZ4	MAT	20-22136-22350
C103	ECEA 1EU470 B	MAT	20-20123-47625	, the		C604 C605	ECQ-B 1H223JZ4		20-22136-22350
C104	RT-DSKC85TK YF 104Z	KCK	20-24518-10425			C606	ECQ-B 1H223JZ4	MAT MAT	20-22136-22350
C105	RT-DSKC85TK YF 104Z	KCK	20-24518-10425				ECQ-B 1H223JZ4	MAT	20-22136-22350
C106	ECEA 1EU101 B	MAT	20-20123-10725			C607 C608	ECQ-B 1H223JZ4	MAT	20-22136-22350
C107	RT-DSKC85TK YF 104Z	KCK	20-24518-10425			C609		MAT	20-20123-47472
C108	ECEA 1EU101 B	MAT	20-20123-10725				ECEA 2AUOR47 B	MAT	20-20123-47472
C109	ECEA 1EU470 B	MAT KCK	20-20123-47625 20-24518-02050			C610 C611	ECEA 2AUOR47 B ECQ-B 1H223JZ4	MAT	20-20123-41412
C110	RT-HE40 TKSL 020C		20-24516-02050			C612	ECQ-B 1H223JZ4	MAT	20-22136-22350
C111	ECEA 1EU470 B	MAT				C613	ECQ-B 1H223JZ4	MAT	20-22136-22350
C112	RT-DSKC85TK YF 104Z	KCK				C614	ECEA 2AU010 B	MAT	20-20123-10572
C113	RT-DSKC85TK YF 104Z	KCK	20-24518-10425			C615	ECEA 1EU330 B	MAT	20-20123-33625
C114	ECEA 1EU101 B	MAT	20-20123-10725 20-20123-47625				ECQ-B 1H223JZ4	MAT	20-22136-22350
C115	ECEA 1EU470 B	MAT	20-20123-41023			C616		MAT	20-22136-22350
* C116	DOD4 100/00 D	V45	00 00100 47000			C617	ECQ-B 1H223JZ4		
C117	ECEA 1EU470 B	MAT	20-20123-47625			C618	ECQ-B 1H223JZ4	MAT	20-22136-22350
C118	RT-DSKC85TK YF 104Z	KCK	20-24518-10425			C619	ECQ-B 1H223JZ4	MAT	20-22136-22350
C119	RT-DSKC85TK YF 104Z	KCK	20-24518-10425			C620	NP 2D 101J T ECEA 2AU010 B	TYO	20-22393-10177
C120	ECEA 1EU101 B	MAT	20-20123-10725			C621		TAN TAN	20-20123-10572 20-20123-47472
C201	RT-HE60 TKSL 181K	KCK	20-24518-18150			C622	ECEA 2AUOR47 B	MAT	20-20123-41412
C202	ECEA 1EU470 B	MAT	20-20123-47625 20-20123-10663			C623 C624	ECEA 1HNO1OS B	MAT	20-20123-10572
C203	ECEA 1JU100 B	MAT					ECEA 2AU010 B		
C204	RT-HE60 TKSL 181K	KCK	20-24518-18150			C626	ECEA 2DU330W	MAT	20-20125-33677
C205	RT-DSKC85TK YF 104Z	KCK	20-24518-10425			C627	ECQ-E 2104KF	MAT	20-22129-10478
C206	RT-HE40 TKSL 750K	KCK	20-24518-75050			C628	ECEA 1EU101 B	MAT	20-20123-10725
C207	RT-HE40 TKSL 750K	KCK	20-24518-75050			C630	RT-DSKC85TK YF 104Z	KCK	20-24518-10425
C208	RT-DSKC85TK YF 104Z	KCK	20-24518-10425			C631	RT-HE40 TKSL 220K	KCK	20-24518-22050
C209	RT-HE60 TKSL 181K	KCK	20-24518-18150			C632	ECQ-B 1H332JZ4	MAT	20-22136-33250
C210	RT-HE40 TKSL 750K	KCK	20-24518-75050			C633	ECQ-B 1H222JZ4	MAT	20-22136-22250
C211	NP 2D 121J T	TYO	20-22393-12177			C634			
C212	ECEA 1EU470 B	MAT	20-20123-47625		*	C635	un on 1017 #	att A	00 00000 10177
C301	RT-HE40 TKSL 470K	KCK	20-24518-47050			C636	NP 2D 101J T	TYO	20-22393-10177
C302	RT-HE40 TKSL 470K	KCK	20-24518-47050			C637	RT-HE40 TKSL 270K	KCK	20-24518-27050
C303	RT-DSKC85TK YF 104Z	KCK	20-24518-10425			C638	ECQ-B 1H332JZ4	MAT	20-22136-33250
C304	ECEA 1EU470 B	MAT	20-20123-47625			C639	ECQ-B 1H222JZ4	MAT	20-22136-22250
C307	ECEA 1EU470 B	MAT	20-20123-47625			C640			Ě
C309	RT-HE40 TKSL 270K	KCK	20-24518-27050		*	C641	ND OD 1011 #	<b>M</b> 110	20-22393-10177 TS
C310	RT-HE70-TKSL 241K	KCK	20-24518-24150			C642	NP 2D 101J T	TYO	ZU-ZZ393-10177 🕜
C311	RT-HE40 TKSL 300K	KCK	20-24518-30050			C643	RT-HE40 TKSL 270K	KCK	20-24518-27050 20-22136-33250
C312	RT-HE40 TKSL 390K	KCK	20-24518-39050			C644	ECQ-B 1H332JZ4	MAT	zu-zz136-33250 📖
C313	ECQ-B 1H103JZ4	MAT	20-22136-10350			C645			ST
C315	ECQ-B 1H103JZ4	MAT	20-22136-10350		*	C646	ND OD 1017 #	MILA	
C317	ECQ-B 1H103JZ4	MAT	20-22136-10350			C647	NP 2D 101J T	TY0	20-22393-10177

NO.	DESCRIPTION	MFD.	PARTS-CODE	 NO.	DESCRIPTION	MFD.	PARTS-CODE
< CAP	ACITORS >			< INDUC	CTANCE COILS >		
2010	POO D 18000174	MAT	00_00100_0000	L305	LF5.0ST26 8R2K	KOA	20-40332-08200
C648	ECQ-B 1H222JZ4	TAM TAM	20-22136-22250 20-22136-33350	L305 L306	P-8R2	SUD	20-40451-08200
C649	ECQ-B 1H333JZ4 ECQ-B 1H333JZ4	MAT	20-22136-33350	L501	LF5.0ST26 100K	KOA	20-40332-10000
C650 C651	ECQ-B 1H333JZ4	MAT	20-22136-33350	L502	LF5.0ST26 3R3K	KOA	20-40332-03300
C701	ECEA 1JU100 B	MAT	20-20123-10663	1.601	LF5. OST26 3R9K	KOA	20-40332-03900
C702	RT-HE40 TKSL 750K	KCK	20-24518-75050	L602	LF5.OST26 3R9K	KOA	20-40332-03900
C703	ECQ-B 1H333JZ4	MAT	20-22136-33350	1603	LF5.OST26 3R9K	KOA	20-40332-03900
C704	ECEA 2AUOR47 B	MAT	20-20123-47472	L801	LHLOSTB 101K	TYC	20-40335-10100
C705	RT-HE40 TKSL 680K	KCK	20-24518-68050				
C706	NP 2D 102J T	TYO	20-22393-10277	< FILTI	ers >		
C707	NP 2D 221J T	TYO	20-22393-22177				
C708	RT-DSKC85TK YF 104Z	KCK	20-24518-10425	FL201	UGL-312BNT	SWC	20-43602-03120
c709	RT-DSKC85TK YF 104Z	KCK	20-24518-10425				
C710	ECEA 1EU101 B	MAT	20-20123-10725	< DELAY	Y LINES >		
C711	NP 2D 101J T	TYO	20-22393-10177	DI 001	PPD DVC/F411	WAT	00 44101 00000
C712	NP 2D 221J T	TYO TYO	20-22393-22177	DL301	EFD-EN645A11	MAT MAT	20-44121-00200
C714	NP 2D 471J T	TYO TYO	20-22393-47177	DL501	ELT-10Z214M	SWC	20-44122-00300 20-44062-00100
C715	NP 2D 101J T	TYO	20-22393-10177	DL502	CN-100	SHO	20-44002-00100
C716	RT-HE40 TKSL 750K	KCK	20-24518-75050 20-22136-68250	< CRYS	TAICS		
C717	ECQ-B 1H682JZ4	MAT TYO	20-22393-47177	\ Cn13	INLS /		
C718 C719	NP 2D 471J T NP 2D 101J T	TYO	20-22393-10177	X201	HC-49/U	KDS	20-45006-00110
C720	NP 2D 1013 T	TYO	20-22393-10277	X301	HC-49/U	KDS	20-45006-00111
C721	ECEA 2AU010 B	MAT	20-20123-10572	X801	CST4.00MGW	MUR	20-45023-00040
C722	ECQ-B 1H103JZ4	MAT	20-22136-10350	7.001			10 10000 00010
C723	EC9-V 1H473JZ2	MAT	20-22137-47350	< SWITE	CHES >		
C724	ECQ-B 1H103JZ4	MAT	20-22136-10350				
C725	ECQ-B 1H472JZ4	MAT	20-22136-47250	S 1	00220658	TKR	20-36002-03600
C726	RT-DSKC85TK YF 104Z	KCK	20-24518-10425	S501	SS-12SBP2	NKA	20-36002-02300
C727	ECEA 1EU101 B	MAT	20-20123-10725				
C802	ECQ-B 1H103JZ4	MAT	20-22136-10350	< CONN	ECTORS >		
C803	NP 2D 101J T	TYO	20-22393-10177				
C804	ECEA 2AUOR47 B	MAT	20-20123-47472	CN301	ST-902480	EMD	20-30995-24800
C805	RT-DSKC85TK YF 104Z	KCK	20-24518-10425	CN306	DF1-5P-2.5DSA	HIR	20-30079-00500
C806	RT-DSKC85TK YF 104Z	KCK	20-24518-10425	 	DF1-SP	HIR	20-30079-00010
C807	EEC S5R5H224	MAT	20-29010-22405	CN315	DF1B-8P-2.5DSA	HIR	20-30079-10800
C808	RT-DSKC85TK YF 104Z	KCK	20-24518-10425	CN316	DF1B-3P-2.5DSA	HIR	20-30079-10300 20-30079-11200
C809	ECEA 1EU101 B	MAT	20-20123-10725	CN317	DF1B-12DP-2.5DSA	HIR HIR	20-30079-11200
C901	ECEA 1EU471 B	MAT	20-20123-47725 20-20123-10572	CN318 CN319	DF1B-6P-2.5DSA DF1B-18DP-2.5DSA	HIR	20-30079-11800
C902 C903	ECEA 2AU010 B ECEA 2AU010 B	MAT MAT	20-20123-10572	CN319	DF1B-2P-2.5DSA	HIR	20-30079-10200
C904	ECQ-B 1H103JZ4	MAT	20-20125-10512	CN321	DF1B-2P-2.5DSA	HIR	20-30079-10200
C905	ECEA 2AU010 B	MAT	20-20123-10572	CN322	DF1B-2P-2.5DSA	HIR	20-30079-10200
C906	ECQ-B 1H332JZ4	MAT	20-22136-33250	CN323	DF1B-30DP 2.5DSA	HIR	20-30079-13000
C907	ECQ-F 6332KZ	MAT	20-22121-33286	0020	J. 15 005. 21055		20 000,0 10000
C908	RT-DSKC85TK YF 104Z	KCK	20-24518-10425	< TEST	POLES >		
C909	ECEA 1JU100 B	MAT	20-20123-10663				
C910	ECQ-B 1H222JZ4	MAT	20-22136-22250	* TP101			
C911	ECQ-B 1H222JZ4	MAT	20-22136-22250	* TP102			
C912	ECEA 1EU471 B	MAT	20-20123-47725	* TP103			
C913	ECQ-B 1H332JZ4	MAT	20-22136-33250	* TP104	ai.		
C914	ECEA 2AU010 B	MAT	20-20123-10572	* TP501			
C915	ECQ-B 1H332JZ4	MAT	20-22136-33250	* TP502			
C916	DHR 1E 225MIS	NEC	20-21093-22525	* TP503			
C917	ECEA 2AU4R7 B	MAT	20-20123-47572	* TP504			
C918	ECQ-B 1H222JZ4	MAT	20-22136-22250	* TP505			
C919	NP 2D 471J T	TYO	20-22393-47177	* TP601			
C920	RT-HE40 TKSL 470K	KCK	20-24518-47050	* TP602 * TP603			
C921 C922	DHR 1V 474K1S	NEC NEC	20-21092-47435 20-21092-33435	* TP604			
C926	DHR 1V 334KIS ◆ ECEA 1EU101 B	MAT	20-20123-10725	* TP605			
C927	ECEA 1EU101 B	MAT	20-20123-10725	* TP606			
0321	ECCH IECTOI B	uni	20 20120 10120	* TP607			
VC201	ECV 1ZW 20X53T	MAT	20-25010-00300	* TP701			
VC301	ECV 12W 20X53T	MAT	20-25010-00300	* TP702			
VC501	ECV 12W 40X53T	MAT	20-25010-00500	* TP703			
	20. 10. 10.001	1.07.1	_0 20010 00000	* TP704			
< IND	UCTANCE COILS >			* TP705			
70				* TP706			
ART 1,202	ST-901285A	IKE	20-40985-12851	* TP707			
J 1202	LF5.0ST26 100K	KOA	20-40332-10000	* TP708			
L203	LF5.0ST26 330K	KOA	20-40332-33000	* TP901			
L301	ST-901285A	IKE	20-40985-12851	* TP902			
S L302	LF5.0ST26 390K	KOA	20-40332-39000	* TP903			
☐ L303	LF5.0ST26 4R7K	KOA	20-40332-04700	* TP904			
L304 بـــٰ	LF5.0ST26 560K	KOA	20-40332-56000				
<b>د</b> ــــ							

NO.	DESCRIPTION	MFD.	PARTS-CODE		NO.	DESCRIPTION	MFD.	PARTS-CODE
< INTE	GRATED CIRCUITS >				< RESI	STORS >		
<b>★</b> IC101	MA2830	FJS	20-01373-02830		R109	ERDS2TJ 103 T	MAT	20-12108-10313
* 10101	TC-80A	SKK	20-59001-01052		R110	ERG-1 ANJ 330	MAT	20-11005-33033
* IC102	TL431CLPB	TEX	20-01574-00711		R111	ERDS2TJ 221 T	MAT	20-12108-22113
IC102	NJM7812FA	JRC	20-01392-00223		R112	ERG-1 ANJ 330	MAT	20-11005-33033
10100	0SH-3030-SP	RYO	20-55518-00300		R113	ERDS1VJ 681 T	MAT	20-12106-68123
<b>★ IC104</b>	PC111L	SRP	20-09452-00010	•	* R114	ERDS2TJ 391 T	MAT	20-12108-39113
IC201	μPC4558C	NEC	20-01783-02100		R115	ERDS2TJ 332 T	MAT	20-12108-33213
10201	AL 040000	NLO	20 01100 02100		* R116	ERDS1VJ 104 T	MAT	20-12106-10433
< TRAN	SISTORS >				★ R117	ERDS2TJ 471 T	MAT	20-12108-47113
7 111.11.					★ R118	ERDS2TJ 152 T	MAT	20-12108-15213
TR101	2SC2298B	HIT	20-02824-06880		R119	ERDS1VJ 750T	MAT	20-12106-75023
TR201	2SC1815-Y TPE2	TOS	20-02824-05702		R120	ERDS2TJ 104 T	MAT	20-12108-10413
TR204	2SD1407-Y	TOS	20-02825-04055		R121	ERDS2TJ 102 T	MAT	20-12108-10213
TR205	2SC3588K	NEC	20-02824-14601		R122	ERDS2TJ 152 T	MAT	20-12108-15213
<b>★ TR206</b>	2SC4123	SYO	20-02824-16020		R123	ERDS1VJ 471 T	MAT	20-12106-47133
TR207	2SC4123	SY0	20-02824-16020		R201	ERDS2TJ 103 T	MAT	20-12108-10313
TR208	2SB649A-C	HIT	20-02823-00501		R202	ERDS2TJ 333 T	MAT	20-12108-33313
TR209	2SJ76	HIT	20-02827-00100		★ R203	ERDS2TJ 472 T	MAT	20-12108-47213
TR210	2SD1138D	HIT	20-02825-03301		R204	ERDS2TJ 103 T	MAT	20-12108-10313
TR211	2SB861C	HIT	20-02823-01000		R205	ERDS2TJ 102 T	MAT	20-12108-10213
TR212	2SD1138D	HIT	20-02825-03301		R206	ERDS1VJ 472 T	MAT	20-12106-47223
TR213	2SA1015-Y TPE2	TOS	20-02822-05402		R207	ERDS2TJ 473 T	MAT	20-12108-47313
TR214	2SD1407-Y	TOS	20-02825-04055		R208	ERDS2TJ 333 T	TAM	20-12108-33313
TR215	2SD1407-Y	TOS	20-02825-04055		R209	ERDS2TJ 332 T	MAT	20-12108-33213
TR216	2SD1138D	HIT	20-02825-03301		R210	ERDS2TJ 152 T	MAT	20-12108-15213
					R211	ERDS2TJ 103 T	MAT	20-12108-10313
< DIOD	ES >				R213	ERDS2TJ 222 T	MAT	20-12108-22213
					R214	ERDS2TJ 472 T	MAT	20-12108-47213
D101	RBV-406	SKN	20-03516-10460		R215	ERDS2TJ 103 T	MAT	20-12108-10313
D102	RD8. 2EB2	NEC	20-03513-02004		R216	ERDS2TJ 472 T	MAT	20-12108-47213
D103	DFH1OTG	SYO	20-03093-00200		R217	ERDS2TJ 103 T	MAT	20-12108-10313
D104	DFH1OTG	SYO	20-03093-00200		R222	ERDS1VJ 152T	MAT	20-12106-15223
D105	DFH10TG	SYO	20-03093-00200		R224	ERDS2TJ 103 T ERG-2 ANJ 471H	MAT MAT	20-12108-10313 20-11025-47143
D106	FMG-G26S	SKN	20-03157-03090		R225		MAT	20-11025-47143
D107 D108	FMG-G26S ERB91-02	SKN Fje	20-03157-03090 20-03122-00300	, when	R226 R227	ERG-2 ANJ 471H ERG-2ANJ 473H	MAT	20-11025-47343
D100	RD6.8EB2	NEC	20-03122-00300		R228	ERX-2 ANJ 1ROH	MAT	20-11029-01043
D103	1S1588 TPB2	TOS	20-03812-01201		R229	ERDS2TJ 391 T	MAT	20-12108-39113
D111	V06C	HIT	20-03631-00200		R230	ERG-2ANJ 331H	MAT	20-11025-33143
D112	03P2M	NEC	20-03901-01000		R231	ERG-2ANJ 683H	MAT	20-11025-68343
D113	V06C	HIT	20-03631-00200	•	* R232	ERDS1VJ 224 T	MAT	20-12106-22423
D201	1S1588 TPB2	TOS	20-03812-01201		R233	ERDS2TJ 330 T	MAT	20-12108-33013
D202	1S1588 TPB2	TOS	20-03812-01201		R234	ERDS2TJ 332 T	MAT	20-12108-33213
D203	1S1588 TPB2	TOS	20-03812-01201		R235	ERG-2 ANJ103H	MAT	20-11025-10343
D204	RD12EB1	NEC	20-03513-02505		R236	ERDS2TJ 222 T	MAT	20-12108-22213
<b>★</b> D205	1S1588 TPB2	TOS	20-03812-01201		R237	ERDS1VJ 104 T	MAT	20-12106-10433
D206	1S1588 TPB2	TOS	20-03812-01201	,	★ R238	ERDS2TJ 155 T	MAT	20-12108-15513
D207	1S1588 TPB2	TOS	20-03812-01201		R239	ERX-2 ANJ 2R2H	MAT	20-11029-02243
D208	1S1588 TPB2	TOS	20-03812-01201		R240	ERDS1VJ 100 T	MAT	20-12106-10033
D209	RD24EB1	NEC	20-03513-03205		R241	ERDS2TJ 103 T	MAT	20-12108-10313
D210	1S1588 TPB2	TOS	20-03812-01201		R242	ERG-2 ANJ 681H	MAT	20-11025-68143
D211	1S1588 TPB2	TOS	20-03812-01201		R243	ERG-1 ANJ 102	MAT	20-11005-10233
D212	DFH1OTG	SY0	20-03093-00200		R244	ERG-1 ANJ 102	MAT	20-11005-10233
D213	DFH1OTG	SY0	20-03093-00200		R245	ERDS2TJ 391 T	MAT	20-12108-39113
D214	DFC15TR	SY0	20-03093-00300		R246	ERDS2TJ 221 T	MAT	20-12108-22113
D215	DFH1OTG	SY0	20-03093-00200		R247	ERDS2TJ 101 T	MAT	20-12108-10113
D216	DFH1OTG	SYO	20-03093-00200		R248	ERX-2 ANJ 1ROH	MAT	20-11029-01043
D217	RU4D	SKN	20-03518-00101		R249	ERDS1VJ 1RO T	MAT	20-12106-01023
D218	DFD3OTG	SYO	20-03093-00400		R250	ERDS2TJ 153 T	MAT	20-12108-15313
D219 D220	DFH10TG V06C	SYO	20-03093-00200 20-03631-00200		R251 R252	ERDS2TJ 471 T ERG-2 ANJ 471H	MAT MAT	20-12108-47113 20-11025-47143
D220 D221	V06C	HIT HIT	20-03631-00200		R253	ERX-2 ANJ 2R2H	MAT	20-11029-02243
D221 D222	MA27W-A	MAT	20-03363-00200		R254	ERDS2TJ 103 T	MAT	20-12108-10313
D223	DFH1OTG	SYO	20-03093-00200		R255	ERDS2TJ 103 T	MAT	20-12108-10313
D224	1S1588 TPB2	TOS	20-03033-00200		R256	ERDS2TJ 103 T	MAT	20-12108-10313
D264	191900 HBV	103	70-00017-01701		R257	PUDOF14 100 I	imi	20 12100 10010
< RESIS	STORS >			·	11201			
				*	VR101	RG-06VT2 1KΩ	COS	20-15550-10200
R101	ERDS1VJ 224 T	MAT	20-12106-22423		VR201	RG-06VT2 10KΩ	COS	20-15550-10200 PAR TS
R102	ERDS1VJ 224 T	MAT	20-12106-22423		VR202	RG-06UT2 10KΩ	cos	20-15549-10300
R103	ERDS1VJ 224 T	MAT	20-12106-22423		VR203	RG-06UT2 20KΩ	COS	20-15549-20300
R104	ERDS2TJ 104 T	MAT	20-12108-10413		VR204	RG-06UT2 100KΩ	COS	20-15549-10400
R105	ERG-2 ANJ 104H	MAT	20-11025-10443		VR206	RG-06UT2 5KΩ	COS	20-15549-50200 🗘
R106	ERG-2 ANJ 104H	MAT	20-11025-10443		VR207	GF-06UT2 50Ω	COS	20-15194-50000
R107	ERDS2TJ 332 T	MAT	20-12108-33213	*	VR208	GF-06UT2 2MΩ	cos	20-15194-20500
R108	ERDS2TJ 101 T	MAT	20-12108-10113		VR209	RG-06UT2 50KΩ	COS	20-15549-50300 ~

NO.	DESCRIPTION	MFD.	PARTS-CODE		NO.	DESCRIPTION	MFD.	PARTS-CODE
TH101	PTH451A102BF140M270	MUR	20-19012-00203		< TRAN	SFORMERS >		
TH103	5D-11	ISI	20-19026-00040					
					* T101	ST-902466A ETH-19Y22AY	IKE	20-40985-24660
< CAP	ACITORS >				T201 ★ T202	ETH-19YZZAY ST-901265A	MAT IKE	20-40130-01000 20-40985-12651
C101	XE 224-Z	OKA	20-22692-22478		~ 1202	31 301200n	Inc	20 40300 12001
C102	XE 224-Z	OKA	20-22692-22478		< RELA	YS >		
C103	ECK-D NS 222MEX	MAT	20-24122-22200				=	
C104	ECK-D NS 222MEX	MAT	20-24122-22200		RL101	AJW3211	MAT	20-46007-03320
C105	ECOS 2DG471H ECOS 2DG471H	MAT MAT	20-20142-47779 20-20142-47779		< CONN	ECTORS >		
C106 C107	DTW 333J 630V	SIN	20-22100-33387		1 001111	LOTONO ?		
C108	ECEA 2CUO10 B	MAT	20-20123-10575		CN101	IG-0342-S	DIT	20-56002-02600
* C109					CN102	00-9090-03-0116-805	ELC	20-30508-10031
C110	ECQ-B 1H103JZ4	MAT	20-22136-10350		CN103	00-9090-03-0116-805	ELC	20-30508-10031
C111	ECEA 1JU100 B	MAT MAT	20-20123-10663 20-22136-10350		CN104 CN105	00-9090-02-0116-805 TS-80P-02-V1	ELC TAD	20-30508-10021 20-30423-00250
C112 C113	ECQ-B 1H103JZ4 ECQ-B 1H103JZ4	TAN	20-22136-10350		0,100	005T-1100	TAD	20-30423-00010
C113	ECQ-B 1H103JZ4	MAT	20-22136-10350			TS-80H-02-A1	TAD	20-30423-00360
C115	ECEA 2AU101	MAT	20-20125-10772		CN106	TS-80P-02-V1	TAD	20-30423-00250
C116	ECEA 2EU3R3	MAT	20-20125-33578		CN201	DF1B-18DP-2.5DSA 00-9090-04-0116-805	HIR	20-30079-11800
C117	ECOS 2CG471L	MAT	20-20142-47763		CN202		ELC	20-30508-10042
C118	ECEA 1JU102	MAT	20-20125-10863 20-20125-10825		CN203 CN204	DF1B-5P-2.5DSA DF1B-3P-2.5DSA	HIR HIR	20-30079-10500 20-30079-10300
C119 C120	ECEA 1EU102 RT-DSKC85TK YF 104Z	MAT KCK	20-24518-10425		CN204 CN206	1951R	NMO	20-30561-00200
C120	ECQ-E 2473KF	MAT	20-22129-47378		0.1200	1001 m	MMA	20-30562-00200
C122	ECEA 1EU470 B	MAT	20-20123-47625		CN705	1381-11 TS-80H-01-A1 005T-1100	TAD	20-30423-00350
C123	ECEA 1EU470 B	MAT	20-20123-47625			005T-1100	TAD	20-30423-00010
C124	ECEA 1EU101 B	TAM	20-20123-10725		4 8000	not be a		
C201	ECEA 2AUO10 B	MAT MAT	20-20123-10572 20-20129-10625		< TEST	PULES >		
C202 C203	ECEA 1EN100S B RT-DSKC85TK YF 104Z	KCK	20-24518-10425		* TP101			
C204	ECEA 1EN100S B	MAT	20-20129-10625		* TP102			
C205	ECQ-B 1H333JZ4	MAT	20-22136-33350		* TP103			
C206	ECEA 2CU010 B	MAT	20-20123-10575		* TP104			
C207	ECEA 1HU470	MAT	20-20125-47650		* TP105			
C208	ECEA 1JU100 B ECEA 1JU100 B	MAT MAT	20-20123-10663 20-20123-10663	70.0	* TP201 * TP202			
C209 C210	ECQ-B 1H102JZ4	MAT	20-20123-10003		* TP202			
C211	ECEA 1JFS100 B	MAT	20-20130-10663					
C212	ECQ-E 2473KF	TAM	20-22129-47378		< FUSE	:S >		
C215	ECEA 2CU470W	MAT	20-20125-47676					00 50500 00100
C216	ECQ-F 6222KZ	MAT	20-22121-22286		F101	FAU031-3573	SCH	20-53506-00100
C217 * C218	ECEA 2CU010 B	MAT	20-20123-10575					
C219	DHS 105J/200V	SIN	20-22097-10577					
C220	ECQ-E 2104KF	MAT	20-22129-10478					
C221	HS11SJ YB 102K	KCK	20-24212-10291		D	EF & POWER (J	PN, USA	.)
* C222	DKR 102J 1600V D00	SIN	20-22104-10290					
* C223	ECQ-V 1H473JZ2	MAT	20-22137-47350			94058-15012	PP-90496	4 01 9308
* C224 * C225	DKR 222J 1600V D00 DKR 332J 1600V D00	SIN SIN	20-22104-22290 20-22104-33290		NO.	DESCRIPTION	MED	PARTS-CODE
★ C226	DKR 222J 1600V D00	SIN	20-22104-22290					
C227	ECEA 2CU470W	MAT	20-20125-47676					
C228	ECEA 2AU010 B	MAT	20-20123-10572		< OTH	ERS >		
* C229	DKR 102J 1600V D00	SIN	20-22104-10290			1000 0	****	00 50000 00000
* C230	DKR 102J 1600V D00 DTW 473J 200V	SIN SIN	20-22104-10290 20-22100-47377			ASG3-3 Fek031-1661	FKD SCH	20-53008-00300 20-53504-00100
C231 C232	DTW 473J 200V	SIN	20-22100-47377			LEW031_1001	SCII	20-55504-00100
C233	ECEA 1JU100 B	MAT	20-20123-10663					
C234	ECEA 1JU100 B	MAT	20-20123-10663					
C235	ECEA 1JU100 B	MAT	20-20123-10663		*			
C236	ECEA 1JU221	MAT	20-20125-22763			EF & POWER (E	UR)	
C238	ECEA 1JU102	TAM	20-20125-10863				****	
< INDI	UCTANCE COILS >					94058-15013		5 01 9308
L101	ELF-18D290V	MAT	20-43122-02900		NO.	DESCRIPTION	MFD.	PARTS-CODE
L101 L102	LHLOSTB 101K	TYC	20-43122-02900					
TO 1.103	LHLOSTB 101K	TYC	20-40335-10100			uede >		
₹ L104	TSL1110-101K1R0	TDK	20-40586-00304		< UT	HERS >		
ARTS	LHLO8TB 332J	TYC	20-40335-33200			EAK 3.15A-T	LTL	20-53002-00420
5202	LHL08TB 332J	TYC	20-40335-33200			FEK031-1663	SCH	20-53504-00200
* L203 L204	ST-902374A HL11D 223K	IKE HRN	20-40985-23741 20-40212-00200					
S 1204	WOITO SOOK	IIIII	TO 40010 00000					

NO.	DESCRIPTION	MFD.	PARTS-CODE	NO.		DESCRIPTION	MFD.	PARTS-CODE
< INTEG	GRATED CIRCUITS >			< 5	SWITC	HES >		
IC 1	NJU3715L ES >	JRC	20-01395-03710	S 1 S 1 S 1	1 2	SKHHAK SKHHAK SKHHAK SKHHAK	ALP Alp	20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009
D 8 D 9 D 10 D 11 D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 * D 27	TLG226 TLY226 TLY226 TLY226 TLY226	TOS	20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03576-01000 20-03576-01000 20-03576-01000		01 02 03 V	DF1B-30DP 2.5DSA A3B-8PA-2DS A3B-8PA-2DS	HIR HIR HIR	20-30079-13000 20-30003-00300 20-30003-00300 01 9308 PARTS-CODE
* D 28 < RESIS	STORS >							
R 3 R 4 R 5 R 6 R 7 R 8 R 9 R 10 R 11 R 12 R 13 R 14 R 15 R 16 R 18 R 19 R 20 * R 20 * R 22 R 29	ERDS2TJ 751 T ERDS2TJ 752 T ERDS2TJ 752 T ERDS2TJ 772 T ERDS2TJ 472 T ERDS2TJ 472 T ERDS2TJ 472 T	MAT MAT MAT MAT MAT MAT MAT MAT MAT MAT	20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113			\$\frac{\circ}{\circ} 902361 \(\circ\) 1-902361 \(\st\) 5T-902361 \(\st\) 5T-902361	ALP ALP ALP ALP	20-15995-23610
VR 1 VR 2 VR 3 VR 4 VR 5 VR 6 VR 7 VR 8 VR 9 VR 10 VR 11  < CAPAC C 2 C 3 < SWITC	RG-06UT2 10KΩ GV-6U 10KΩ GV-6U 10KΩ GV-6U 10KΩ GV-6U 10KΩ GV-6U 10KΩ RG-06UT2 10KΩ CITORS >  ECEA 1CKA101 B ECEA 1CKA101 B CHES >	COS	20-15549-10300 20-15199-10320 20-15199-10320 20-15199-10320 20-15199-10320 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-20128-10716					
S 1 S 2 S 3 S 4 S 5 S 6 S 7 S 8	SKHHAK SKHHAK SKHHAK SKHHAK SKHHAK SKHHAK SKHHAK SKHHAK	ALP ALP ALP ALP ALP ALP ALP ALP	20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009	07				PARTS LIST-14

		14" FI	RONT LEFT	ROARD		94058-15110	PP-904955 01 S	ารบร
NO.	DESCRIPTION		. PARTS-CODE	2011112	NO.	DESCRIPTION		
< DIOD	ES >							
	SLP-274B SLP-960C SLP-960C	SYO SYO SYO	20-03553-00900	:				
< SWIT	CHES >							
s 1	SKHHAK	ALP	20-34267-01009	!				
< CONN	ECTORS >							
CN601	DF1B-5P-2.5DSA	HIR	20-30079-10500					
		14" C	RT SOCKET	BOARD		94058-15130		
NO.	DESCRIPTION	MFD.	PARTS-CODE		NO.	DESCRIPTION	MFD. PARTS-CODE	
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R 1 R 2 R 3 R 4	ERDS2TJ 101 T ERDS2TJ 101 T ERDS2TJ 101 T ERDS2TJ 100 T	MAT MAT MAT MAT	20-12108-10113 20-12108-10113 20-12108-10113 20-12108-10013					
< CAPA	CITORS >							
C 1	HS23SJ YE 103P	кск	20-24212-10391					
	ectors >							
CN207 CN701 CN702 CN703 CN704 CN705 CN706	1951P 1380-TL DF1B-2P-2.5DSA DF1B-2P-2.5DSA DF1B-2P-2.5DSA DF1B-3P-2.5DSA SZ-0010-29 XB-0865	NMO NMO HIR HIR HIR SMK SMK	20-30562-00100 20-30079-10200 20-30079-10200 20-30079-10200 20-30079-10300 20-51851-00100	-				
< TEST	POLES >							
* TP 1 * TP 2 * TP 3 * TP 4								
TB 1	62409-1	AMP	20-30801-02400					
< OTHE	RS >							
SK 1 SK 2 SK 3	GD-626 GD-626 GD-626	NHK NHK NHK	20-59003-01005					
		14" CF	RT			94058-15140	PP-905047 01 9	308
NO.	DESCRIPTION	MFD.	PARTS-CODE		NO.	DESCRIPTION	MFD. PARTS-CODE	
< TUBES	s <b>&gt;</b>							
* V 1 PA	M34JLR11X09	ніт	20-72110-03200					

PARTS LIST-15

20" FRONT PANE
----------------

		ZU PRU	INI PANEL		94036-15090	rr~904900	01 9900
NO.	DESCRIPTION	MFD.	PARTS-CODE	NO.	DESCRIPTION	MFD.	PARTS-CODE
< INTEG	GRATED CIRCUITS >			< SWIT	CHES >		
IC 1	NJU3715L ES >	JRC	20-01395-03710	S 8 S 9 S 10	SКННАК SКННАК SКННАК	ALP ALP ALP	20-34267-01009 20-34267-01009 20-34267-01009
D 8 D 9 D 10 D 11 D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21	TLG226	TOS	20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330 20-03572-00330	S 11 S 12 S 13 S 16 < CONN CN501 CN502 CN503	SKHHAK SKHHAK SKHHAK SKHHAK ECTORS >  DF1B-30DP 2.5DSA A3B-8PA-2DS A3B-8PA-2DS	ALP ALP ALP ALP HIR HIR	20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009 20-30079-13000 20-30003-00300 20-30003-00300
D 22 D 23 D 24 D 25 D 26 * D 27 * D 28	TLY226 TLY226 TLY226 TLY226 TLY226 SLP-274B	TOS TOS TOS TOS SYO	20-03576-01000 20-03576-01000 20-03576-01000 20-03576-01000 20-03553-02740	į	7 R BOARD 94058-15030	PP-904958	3 <b>01</b> 9308
< RESIS	STORS >			NO.	DESCRIPTION	MFD.	PARTS-CODE
R 3 R 4 R 5 R 7 R 8 R 10 R 11 R 12 R 13 R 14 F 15 R 17 R 18 R 20 * R 22 VR 2 VR 2 VR 3 VR 5 VR 8 VR 9 VR 10 VR 10 VR 10 VR 11	ERDSZTJ 751 T ERDSZTJ 752 T ERDSZTJ 751 T ERDSZTJ 752 T ERDSZTJ 751 T ERDSZTJ 102 T ERDSZTJ 102 T ERDSZTJ 103 T  RG-06UT2 10KQ GV-6U 10KQ GV-6U 10KQ GV-6U 10KQ GV-6U 10KQ GV-6U 10KQ GV-6U 10KQ RG-06UT2 10KQ RG-06UT2 10KQ RG-06UT2 10KQ RG-06UT2 10KQ RG-06UT2 10KQ	MAT	20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-75113 20-12108-47213 20-12108-47213 20-12108-47213 20-12108-47213 20-12108-47213 20-12108-10310 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300 20-15549-10300	< RES VR 1 VR 2 VR 3 VR 4	ST-902361 ST-902361 ST-902361 ST-902361	ALP ALP ALP	20-15995-23610 20-15995-23610 20-15995-23610 20-15995-23610
	CITORS >						
C 2 C 3	ECEA 1CKA101 B ECEA 1CKA101 B	MAT MAT	20-20128-10716 20-20128-10716				
< SWITC	CHES >						PA
S 1 S 2 S 3 S 4 S 5 S 6 S 7	SKHHAK SKHHAK SKHHAK SKHHAK SKHHAK SKHHAK	ALP ALP ALP ALP ALP ALP	20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009 20-34267-01009				PARTS LIST-16

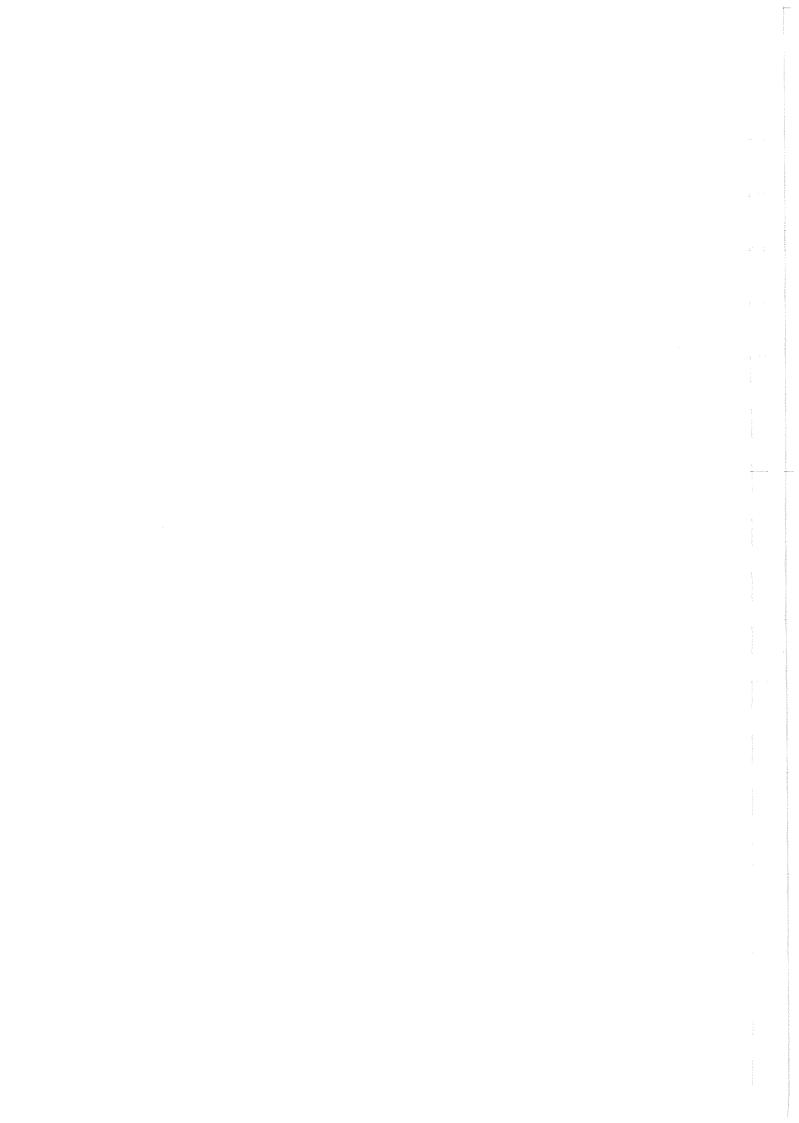
94058-15090

PP-904956

01 9308

		20'	' CRI			94058-15150	PP-905048	01	9308
	NO.	DESCRIPTION	MFD.	PARTS-CODE	NO.	DESCRIPTION	MFD.	PARTS-COD	E
	< TUBES	>							
*	V 1	M48JFB05X01	MAT	20-72110-02220					

PARTS LIST-17



# 5. MECHANICAL PARTS LIST AND EXPLODED VIEW

NO.	Japanese	Code	English	JIS NO.
1	なべ小ねじ	NM	PAN HEAD SCREW	B 1111
2	さら小ねじ	SM	FLAT HEAD SCREW, OR FLASH HEAD SCREW	B 1111
3	丸さら小ねじ	MM	OVAL COUNTERSUNK HEAD SCREW	B 1111
4	トラスねじ	TM	TRUSS HEAD SCREW, OR MUSHROOM HEAD SCCEW	B 1111
5	バインド小ねじ	NMB	BINDING HEAD SCREW	B 1111
6	平小ねじ	FM	FLAT FILLSTER HEAD SCREW	B 1111
7	丸平小ねじ	CM	OVAL HEAD SCREW	B 1111
8	セムスねじ	NMS	PAN HEAD SCREW WITH SPRING LOCK WASHER	B 1188
9	トラスタッピングねじ	ТТ	TRUSS HEAD TAPPING SCREWS	B 1122
10	丸さらタッピングねじ	МТ	OVAL COUNTERSUNK HEAD TAPPING SCREWS	B 1122
11	さらタッピングねじ	ST	FLAT HEAD TAPPING SCREWS	В 1122
12	バインドタッピングねじ	BNT	BINDING HEAD TAPPING SCREWS	В 1122
13	ホロセット	НМ	HEXAGON SOCKET SET SCREW	B 1177
14	ソケットヘッドキャップ スクリュー	SHM	HEXAGON SOCKET HEAD CAP SCREW	В 1176
15	なベタッピングねじ	NT	PAN HEAD TAPPING SCREWS	B 1122
16	ヘリサート	MB-1D	HELI SERT	
17	六角ボルト	ВМ	HEXAGON HEAD BOLTS	В 1180
18	ちょうボルト	WB	WING BOLTS	B 1184
19	六角ナット	N	HEXAGON NUTS	B 1181
20	ちょうナット	WN	WING NUTS	В 1185
21	六角袋ナット	DN	DOMED CAP NUTS	B 1183
22	ばね座金	sw	SPRING LOCK WASHERS	B 1251
23	平座金	HW	PLANE WASHER	B 1256
24	菊ワッシャー	TW	TOOTHED LOCK WASHER	B 1255
25	割りピン	SPP	SPLIT PINS	B 1351
26	テーパーピン	TAP	TAPER PINS	B 1352
27	平行ピン	PAP	PARALLEL PINS	B 1354
28	スプリングピン	SRP	SPRING PINS	В 2808

Notes: Plane washers are divided into the following two types.

HWS: Washers with neck HWL: Ordinary washers

1	NM BNM		PAN HEAD SCREW PAN HEAD SCREW (BLACK)
2	SM BSM		FLAT HEAD SCREW FLAT HEAD SCREW (BLACK)
3	MM BMM		OVAL COUNTERSUNK HEAD SCREW OVAL COUNTERSUNK HEAD SCREW (BLACK)
4	TM BTM	C. Timin	TRUSS HEAD SCREW (BLACK)
5	NMB	A James	BINDING HEAD SCREW
8	NMS		PAN HEAD SCREW WITH SPRING LOCK WASHER
9	ТТ	& Think	TRUSS HEAD TAPPING SCREW
10	BNT	& Timing	BINDING HEAD TAPPING SCREWS
11	МТ	P Timin	OVAL COUNTERSUNK HEAD TAPPING SCREWS
12	ST	(A) Timina	FLAT HEAD TAPPING SCREWS
13	НМ		HEXAGON SOCKET SET SCREW
14	SHM		HEXAGON SOCKET HEAD CAP SCREW
15	NT	C Times	PAN HEAD TAPPING SCREWS

#### BODY 1 (STANDARD) PM-950209 94058-20090

No. 1001 1002 1003 1004 1005	INDBX 3-F 6-E 7-A 5-C 6-C	PARTS NAME ESCUTCHEON CHASSIS REAR COVER LEFT BRACKET RIGHT BRACKET	PARTS No. M0-950139A M1-950943 M1-950954 M2-950939 M2-950940	t y 1 1 1 1 1
1006 1007 1008 1009 1010	4-D 4-D 6-D 5-D 6-B	POWER BUTTON SW ADAPTER PCB HOLDER BUSHING BTYPE MONITOR FOOT	M3-917616 M3-950206 M3-908268 M3-916296 M4-908267	1 1 2 1 4
1011 1012 1013 1014 1015	4-D 7-A 1-D 2-D 8-A	BARTH SPRING BLANK PANEL (2) NAME PLATE BSCUTCHBON PACKING PUSH RIVET	M4-279433A M4-950686 D45 KG-CR5754 (1.2m) P2632	2 1 1 1
1016 1017 1018 1019 1020	3-C 3-R 3-B 2-D 3-D	PURSE LOCK CRT WASHER CRT WASHER SCREW SCREW	NO. 62 A5052P-H34-t1.0 A5052P-H34-t2.0 NMB3-10 NMB3-10	4 4 1 1
1021 1022 1023 1024 1025	7-A 8-B 8-C 7-C 6-C	SCREW SCREW SCREW SCREW SCREW	NMB3-6 NMB3-6 NMB3-6 BNT3-10 NMB3-6	1 3 3 3
1026 1027 1028 1029 1030	5-D 6-D 6-D 6-E	SCREW SCREW WASHER WASHER SCREW	NMB 3 - 6 NMB 4 - 6 HW 4 TW 4 NMB 3 - 6	1 1 1 1
1031 1032 1033 1034 1035	6-E 4-E 4-E 3-D 3-E	SCREW SCREW SCREW SCREW WASHER	NM2.6-10 NMB3-6 NMB4-8 NM6-16 SW6	2 1 2 4
1036 1037 1038 1039 1040	3-E 4-D 6-F 6-F 5-F	WASHER SCREW SCREW SCREW SCREW	HW6 NMB3-6 NMB4-16 NMB3-6 NMB4-8	4 2 4 1 2

17 SERIES TM14-17R COLOR MONITOR BODY(1/2) K3-950162(1/2) BODY (COVER)

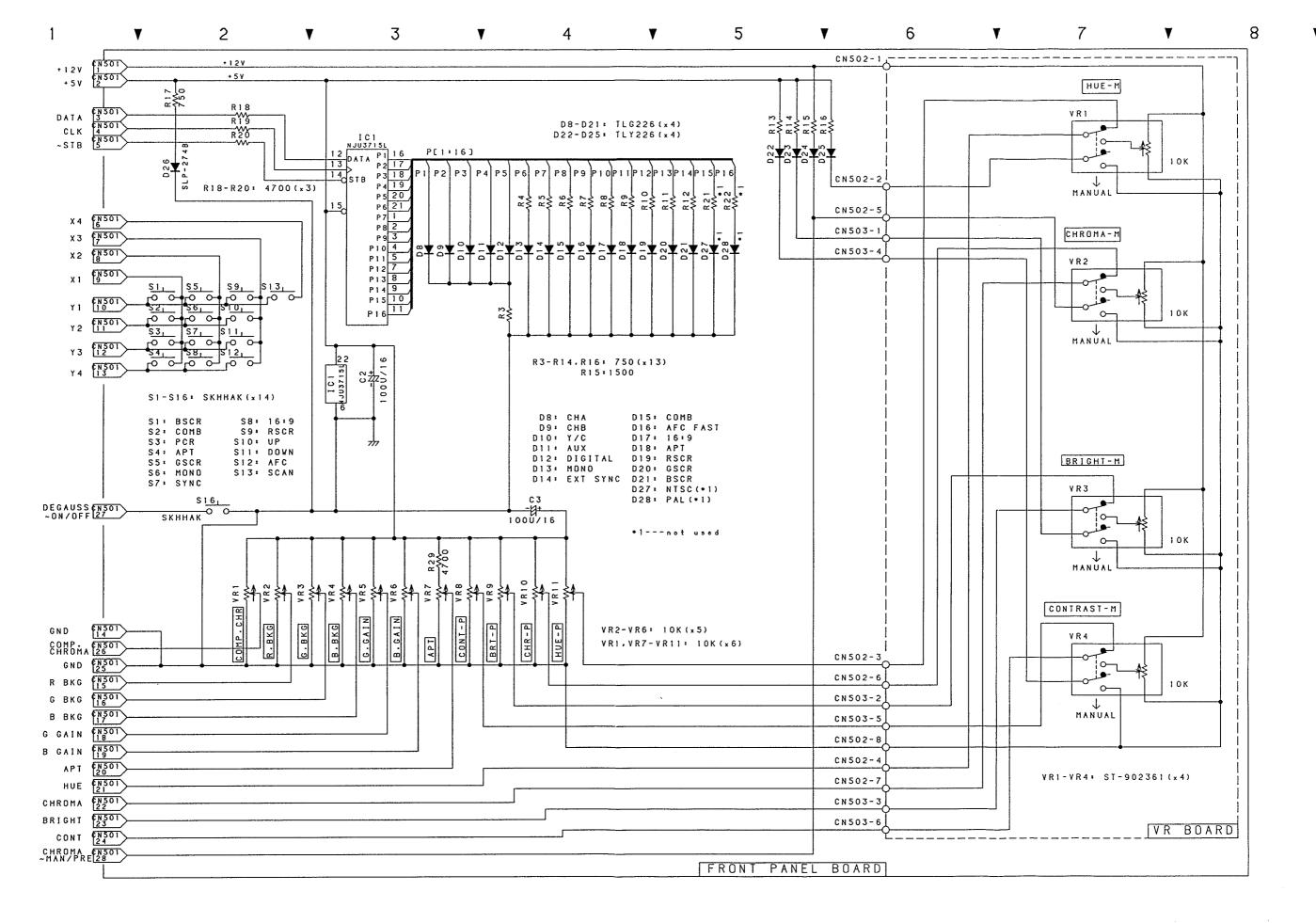
PM-950211 94058-20100

No.	INDEX	PARTS NAMB	PARTS No.	Q' ty
1101	5-A	TOP COVER	M2-951078	1
1102	8 – E	SIDE COVER	M2-951079	A:1
1103	'1-A	SIDE COVER	M2-951079	B:1
1104	4-A	SCREW	NMB 4 – 6	4
1105	7-E	SCREW	NMB $4-6$	5
1106	1-B	SCREW	NMB 4 - 6	5

### DEF & POWER BOARD PARTS

PM-950222 94058-20190

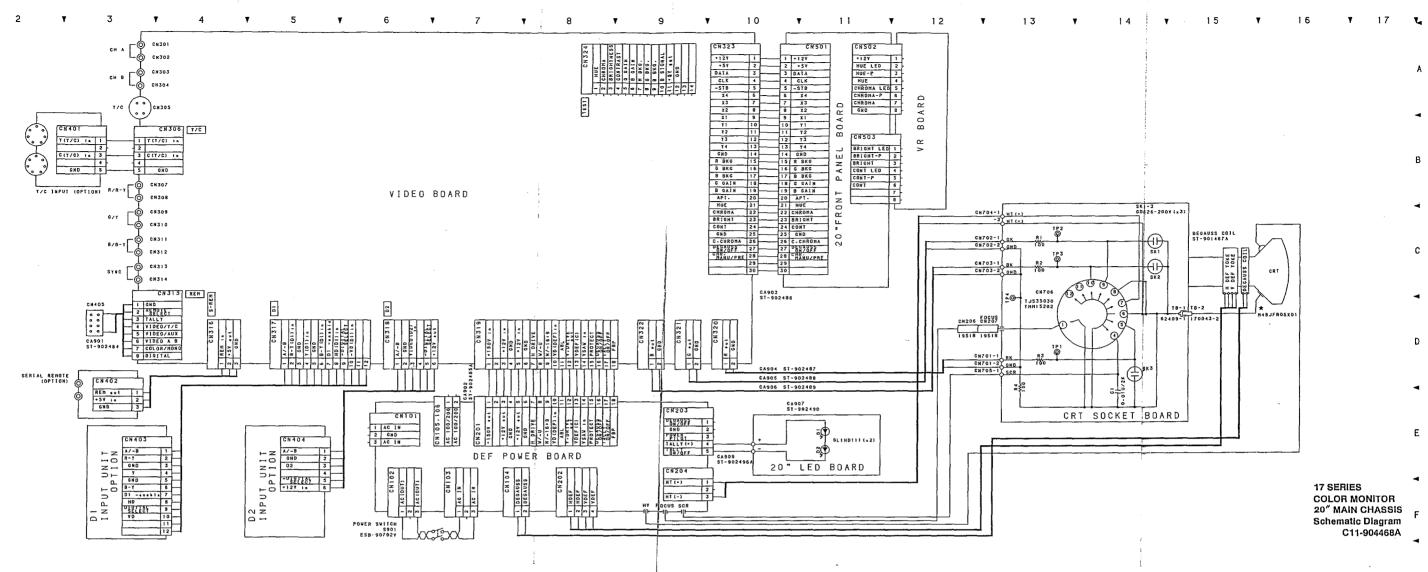
INDEX	PARTS NAME	PARTS No.	Q'ty
5-C	INLET METAL	M2-950941	1
4-C	D&P HEAT SINK	M3-951107	1
4-B	HEAT SINK B	M4-910327	2
4-C	TR HOLDER	M4-920627	1
4-C	SCREW	NMB 3-6	2
4-C	SCREW	NMB3-12	1
4-B	SCREW	MM 3 – 8	2
4-A	SCREW	NMB 3 - 6	3
3 – A	SCREW	NMB 4 - 6	2
3-B	SCREW	NMB 3-6	1
3-B	SCREW	NMB 3 - 6	3
3-B	SCREW	NMB 3-6	3
	5-C 4-C 4-B 4-C 4-C 4-C 4-B 4-A 3-A 3-B	5-C INLET METAL 4-C D&P HEAT SINK 4-B HEAT SINK B 4-C TR HOLDER 4-C SCREW 4-B SCREW 4-A SCREW 3-A SCREW 3-B SCREW 3-B SCREW 3-B SCREW	5-C INLBT METAL M2-950941 4-C D&P HEAT SINK M3-951107 4-B HEAT SINK B M4-910327 4-C TR HOLDER M4-920627 4-C SCREW NMB3-6 4-C SCREW NMB3-12 4-B SCREW MM3-8 4-A SCREW NMB3-6 3-A SCREW NMB4-6 3-B SCREW NMB3-6 3-B SCREW NMB3-6

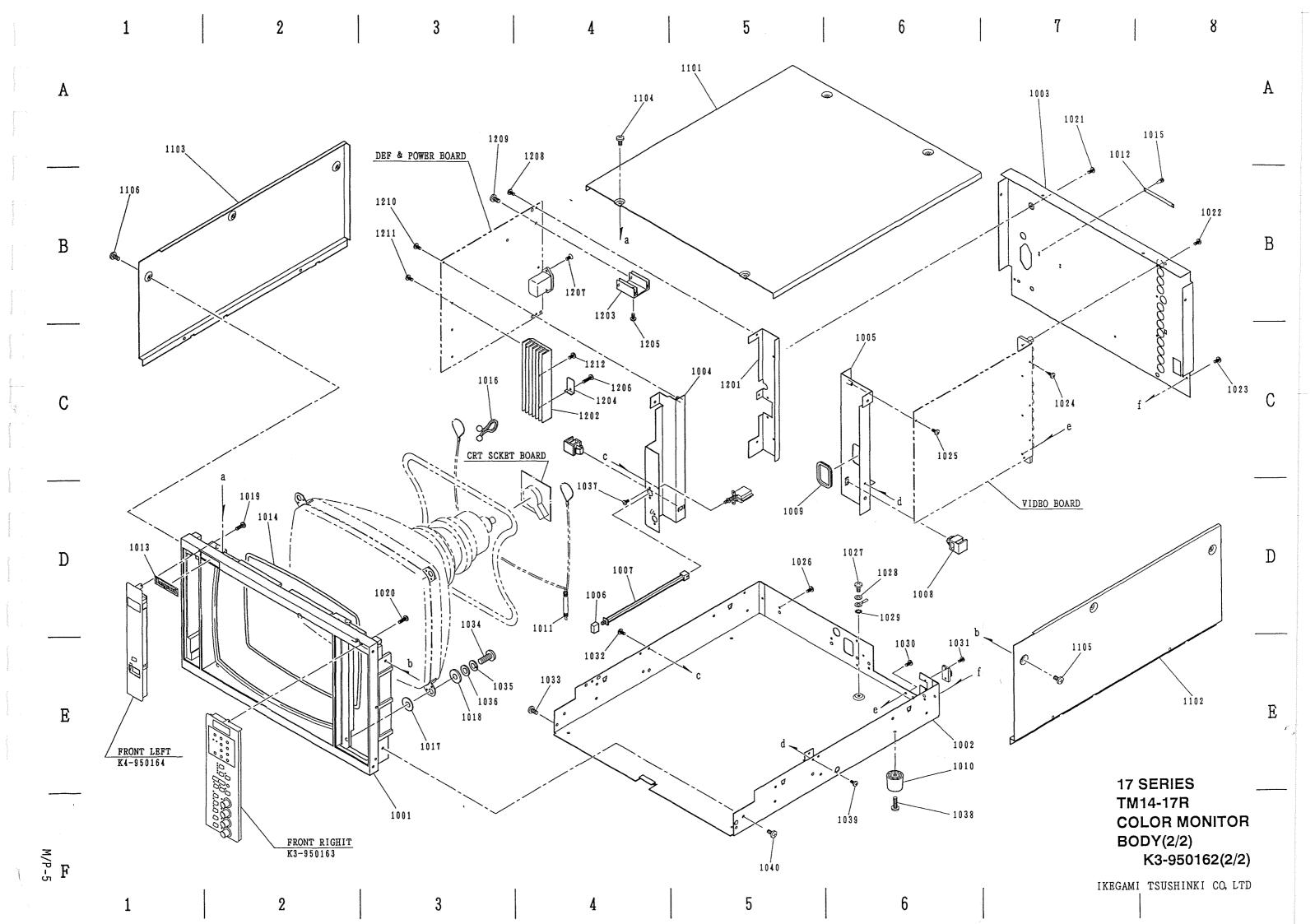


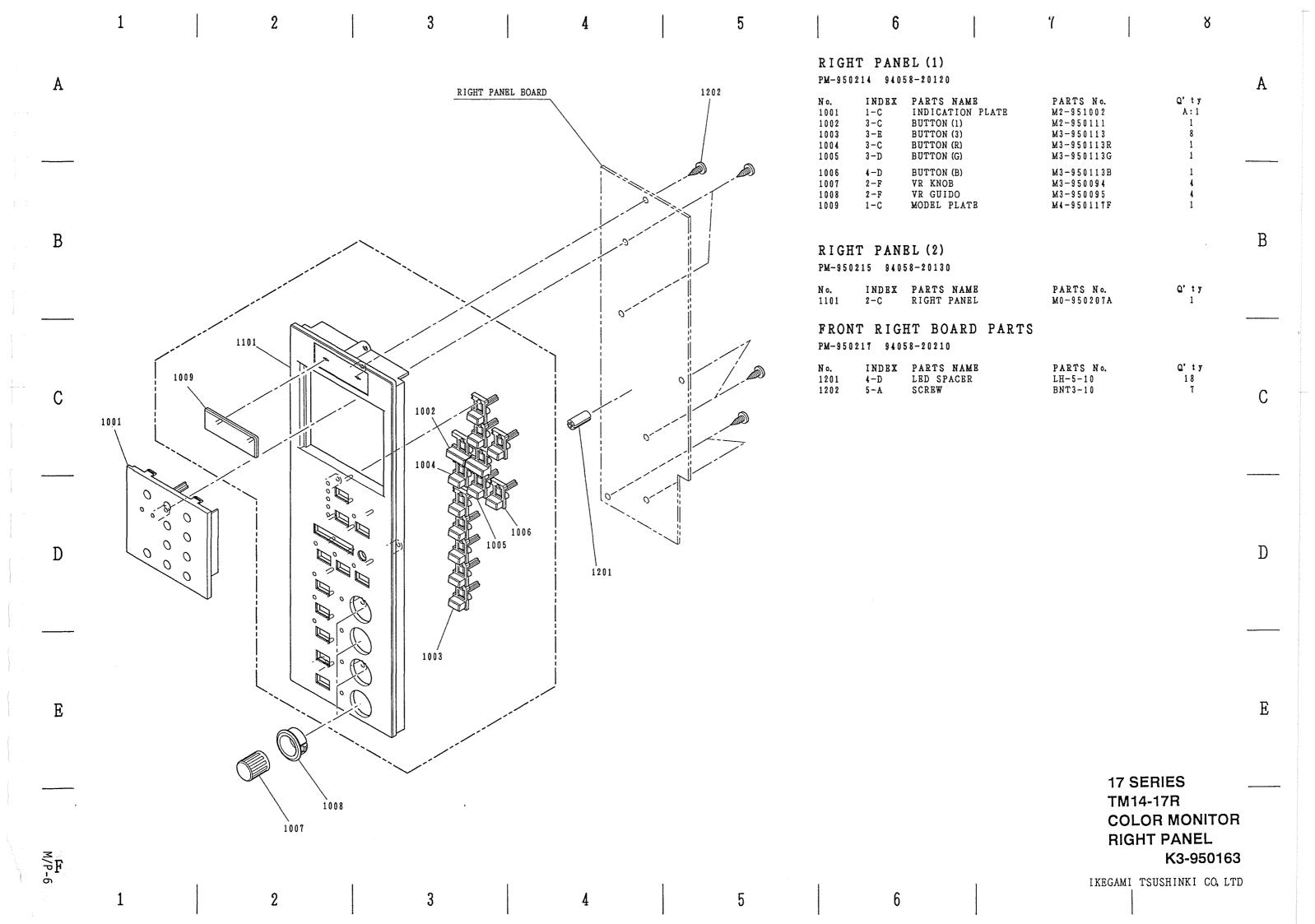
17 SERIES COLOR MONITOR 20"FRONT PANEL/VR BOARD Schematic Diagram

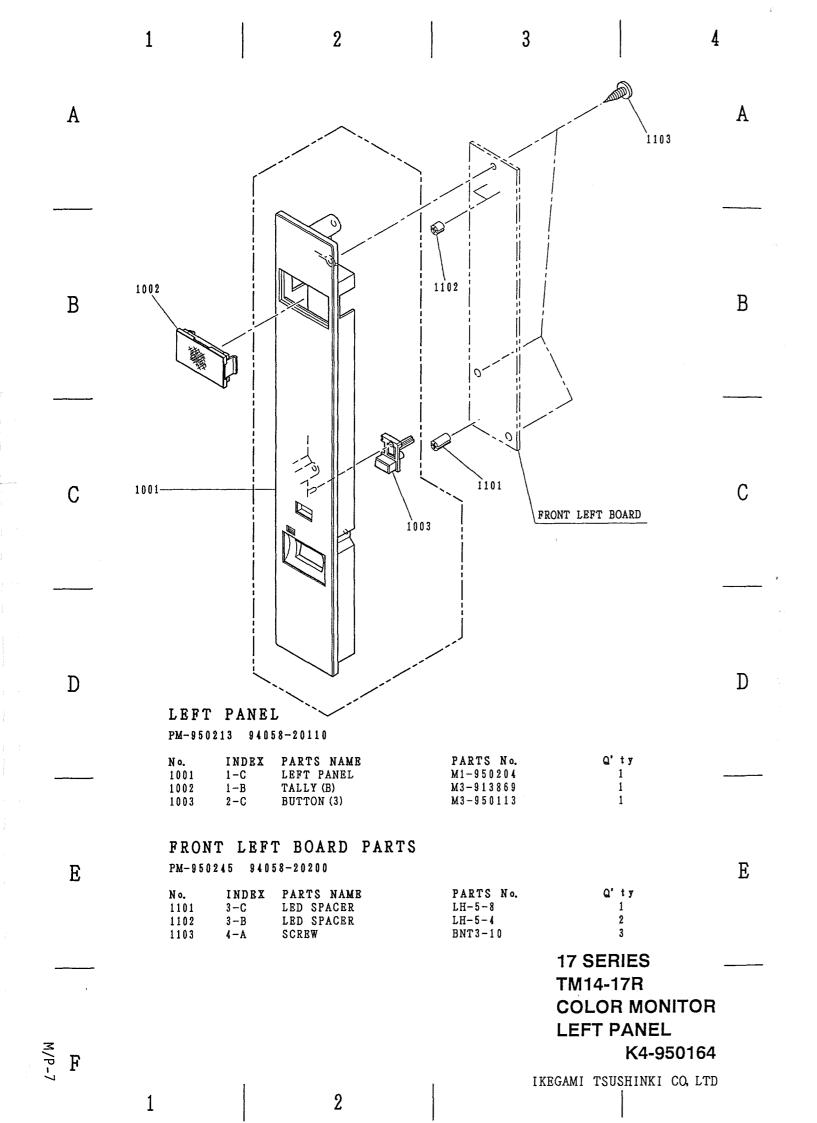
C3-904463A

D









BODY 1 (STANDARD) PM-950210 94058-20140

No.		PARTS NAME	PARTS No.	Q'ty
1001	1-E	ESCUTCHEON	M0-950063A	1
1002	6-E	CHASSIS	M1-950943	1
1003	7 – A	REAR COVER	M1-951081	1
1004	5 – C	LEFT BRACKET	M2-950939	1
1005	6-C	RIGHT BRACKET	M2-950940	1
1006	4 - D	POWER BUTTON	M3-917616	1
1007	4 - D	SW ADAPTER	M3-950206	1
1008	6-D	PCB HOLDER	M3-908268	2
1009	5-D	BUSHING BTYPE	M3-916296	1
1010	6-E	MONITOR FOOT	M4-908267	4
1011	4 – E	EARTH SPRING	M4-279433A	2
1012	3 – E	EARTH RAG	M4-910974	2
1013	2-B	TALLY	M4-912378	1
1014	8 – A	BLANK PANEL (2)	M4-950686	1
1015	1 – D	NAME PLATE	D 4 5	1
1016	2 – E	ESCUTCHEON PACKING	KG-CR5754 (2.2 m)	1
1017	A-8	PUSH RIVET	P 2 6 3 2	4
1018	3 – C	PURSE LOCK	NO. 62	4
1019	3 – E	CRT WASHER	A5052P-H34-t1.2	-
1020	3-E	CRT WASHER	A5052P-H34-t2.0	4
1021	7 – A	SCREW	NMB 3 - 6	1
1022	8-B	SCREW	NMB3-6	3
1023	8 – C	SCREW	NMB3-6	3
1024	7 – C	SCREW	BNT3-10	3
1025	6-C	SCREW	NMB3-6	1
1026	5-D	SCRBW	NMB 3 - 6	1
1027	6-D	SCREW	NMB 4 - 6	1
1028	6 – D	WASHER	HW4	1
1029	6 – D	WASHER	TW4	1
1030	6 – E	SCREW	NMB3-6	1
1031	6 – E	SCREW	NM 2.6 - 1 0	2
1032	4 – E	SCREW	NMB 3 – 6	1
1033	4-E	SCREW	NMB 4 - 8	2
1034	3-E	SCREW	NM6-16	4
1035	3-E	WASHER	SW6	4
1036	3-E	WASHER	HW6	4
1037	3-F	SCREW	NMB 3 - 1 0	1
1038	4 - D	SCREW	NMB 3 - 6	2
1039	6 – F	SCREW	NMB 4 - 1 6	4
1040	6-F	SCREW	NMB 3 - 6	1

NMB 4 - 8

17 SERIES TM20-17R COLOR MONITOR BODY(1/2) K3-950165(1/2)

IKEGAMI TSUSHINKI CO, LTD

1041 5-F

SCREW

### BODY (COVER)

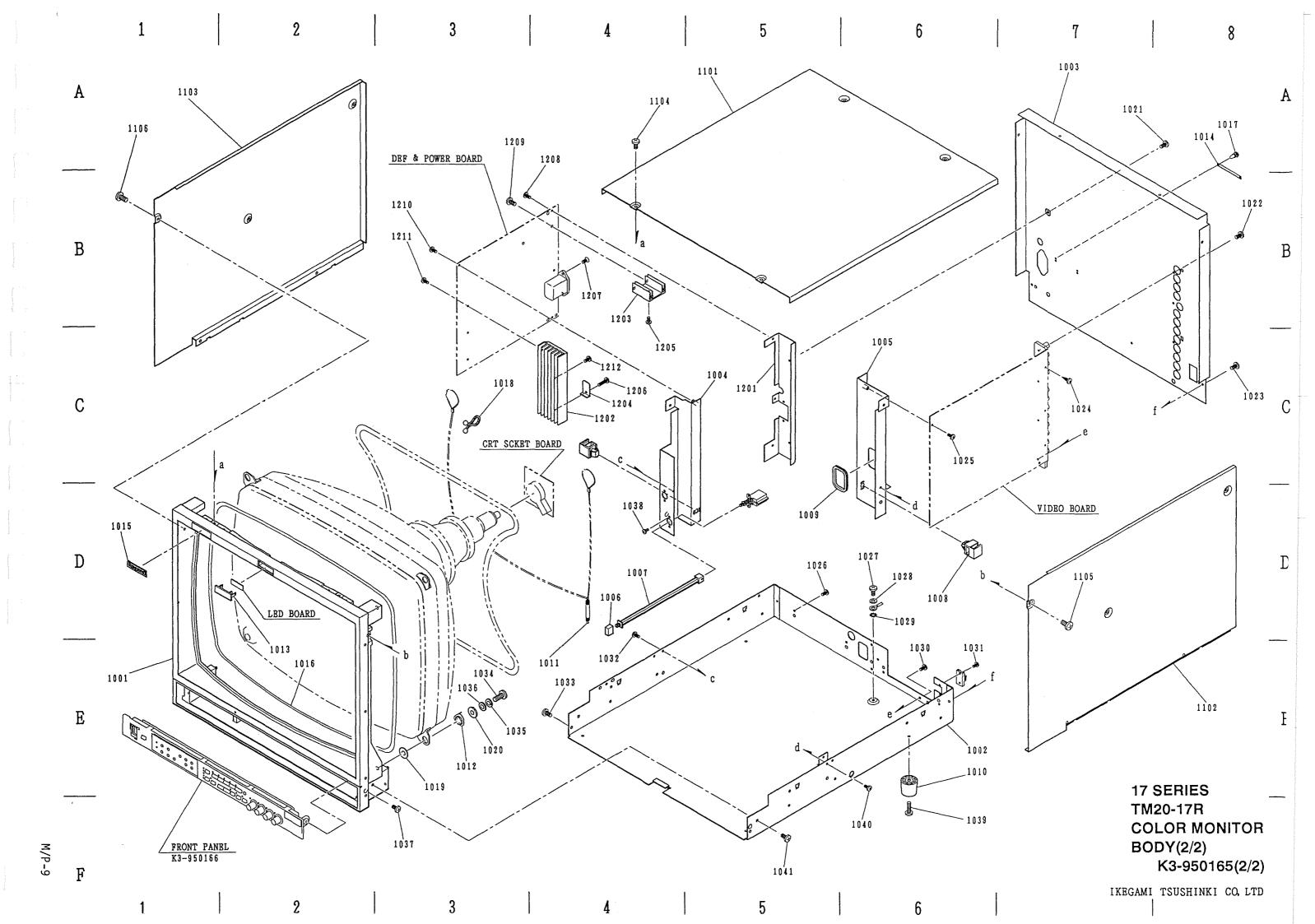
#### PM-950212 94058-20170

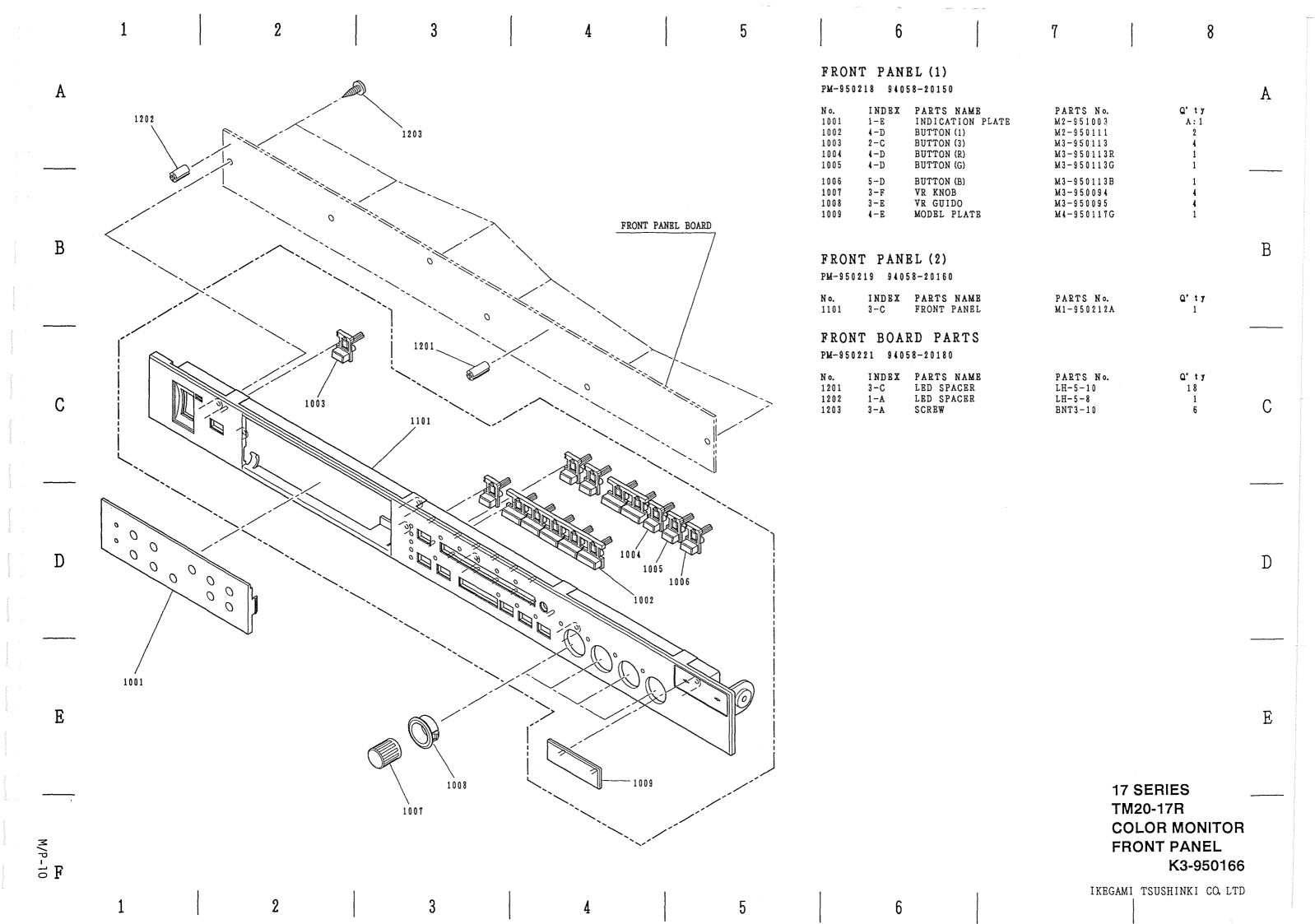
No.	INDEX	PARTS NAMB	PARTS No.	Q'ty
1101	5-A	TOP COVER	M2-951078	1
1102	8 – E	SIDE COVER	M2-951102	A:1
1103	1-A	SIDE COVER	M2-951102	B:1
1104	4 – A	SCREW	NMB 4 – 6	4
1105	7-D	SCREW	NMB 4 - 6	5
1106	1-A	SCREW	NMB 4 - 6	5

### DEF & POWER BOARD PARTS

#### PM-950222 94058-20190

No.	INDEX	PARTS NAMB	PARTS No.	Q' ty
1201	5-C	INLET METAL	M2-950941	1
1202	4-C	D&P HEAT SINK	M3-951107	1
1203	4-B	HEAT SINK B	M4-910327	2
1204	4-C	TR HOLDER	M4-920627	1
1205	4-C	SCREW	NMB 3 - 6	2
1206	4-C	SCREW	NMB 3-12	1
1207	4-B	SCREW	MM 3 – 8	2
1208	4 – A	SCREW	NMB 3 - 6	3
1209	3-A	SCREW	NMB 4 - 6	2
1210	3-B	SCREW	NMB 3 - 6	1
1211	3-B	SCREW	NMB3-6	3
1212	3-B	SCREW	NMB 3 - 6	3





# TM14-17R TM20-17R

**COLOR MONITOR** 

# **Service Manual**

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# Ikegami

# Ikegami Tsushinki Co., Ltd.

5-6-16, Ikegami, Ohta-ku, Tokyo, 146 Japan Phone: (03)5700-1111, Telex: 2466738 IKETSU J, Fax: (03)5700-1160

■lkegami Electronics (U.S.A.),Inc.

37 Brook Avenue, Maywood, New Jersey 07607, U.S.A.
Phone: (201)368-9171, Telex: 219034 ITCNJ UR, Fax: (201)569-1626

■lkegami Electronics (Europe) GmbH

Ikegami Strasse 1, 41460 Neuss 1, F.R. Germany
Phone: (02131)123-0, Telex: 17-2131365= IKE, Fax: (02131)102820

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